

COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY

An International Journal

EDITORS

G. A. KERKUT
(Southampton)

MARCEL FLORKIN
(Liège)

VOLUMES 38—40

	Page
Subject Index.....	I
Author Index.....	37



PERGAMON PRESS

OXFORD • LONDON • NEW YORK • PARIS

Comparative Biochemistry and Physiology

Editors

Professor G. A. KERKUT, Department of Physiology and Biochemistry, University of Southampton, Southampton SO9 5NH, England. (Executive Editor.)

Professor MARCEL FLORKIN, Laboratoire de Biochimie, Université de Liège, Belgium.

Members of the Honorary Editorial Advisory Board

T. H. BULLOCK (La Jolla)	C. L. PROSSER (Urbana)
C. B. COWEY (Aberdeen)	A. PUNT (Amsterdam)
A. H. ENNOR (Canberra)	J. ROCHE (Paris)
R. FÄNGE (Göteborg)	B. T. SCHEER (Eugene)
E. FLOREY (Konstanz)	J. E. SMITH (Plymouth)
W. S. HOAR (Vancouver)	C. A. VILLEE (Massachusetts)
L. IRVING (Alaska)	G. WALD (Harvard)
H. KINOSITA (Tokyo)	T. WEIS-FOGH (Cambridge)
E. KREPS (Leningrad)	J. H. WELSH (Maine)
O. LOWENSTEIN (Birmingham)	C. A. G. WIERSMA (Pasadena)
C. MANWELL (Tallahassee)	E. ZEUTHEN (Copenhagen)
H. S. MASON (Portland)	

*Publishing Offices: Headington Hill Hall, Oxford OX3 0BW
and: Maxwell House, Fairview Park, Elmsford, New York 10523*

Annual subscriptions (including postage):

For libraries, research establishments and all other multiple-reader institutions \$185.00 (£75.00) (Combined subscription). Part A, Comparative Physiology \$100 (£40.00); Part B, Comparative Biochemistry \$100 (£40.00).

Private individuals, whose departmental libraries subscribe, may obtain this Journal for their personal use at a reduced rate of \$25.00 (£10.00) per annum (Combined subscription). Part A, Comparative Physiology \$15 (£6.00); Part B, Comparative Biochemistry \$15 (£6.00). Copyright © 1972. Pergamon Press. Published twice monthly (Part A, 1st of the month; Part B, 15th of the month).

All subscription enquiries should be addressed to: *The Subscriptions Manager, Pergamon Press, Headington Hill Hall, Oxford OX3 0BW.*

Microform Subscriptions and Back Issues

Current subscriptions on microfiche and microfilm, and back files on microfilm as well as back issues in the regular editions of all previously published volumes are available from our sole distributors, Maxwell International Microforms Corporation Inc. (M.I.M.C.) at the most convenient address:
Fairview Park, Elmsford, New York 10523, U.S.A. Cowper House, Olney, Bucks, England.

PERGAMON PRESS

HEADINGTON HILL HALL, OXFORD, OX3 0BW

MAXWELL HOUSE, FAIRVIEW PARK, ELMSFORD, NEW YORK 10523

SUBJECT INDEX

Volumes 38-40 inclusive, 1971

- α - and β -polypeptide chain, **39B**, 503
- A/Cam mice, **39B**, 131
- ACh (acetylcholine), **38B**, 529; **39A**, 63; **39A**, 147; **39A**, 795; **39B**, 879
- AChE (acetylcholinesterase), **40A**, 405
- ACTH (adrenocorticotrophic hormone), **38A**, 183; **38A**, 763
- ADP (adenosinediphosphate), **40B**, 407
- ADP : O, **38B**, 21
- Ag, **38A**, 387
- Al, **38A**, 387
- 5'-AMP (adenosine-5'-phosphate), **40B**, 347
- AMP-deaminase, **40B**, 407
- ATP, **40B**, 407
 - binding of ^{45}Ca , **38A**, 369
 - effect upon oxygen affinity, **38B**, 585
 - generation, **39B**, 627
- ATPase, **38B**, 501; **39A**, 583; **39B**, 955; **40A**, 405; **40B**, 823
- Abalone, **40B**, 807
- Abarenicola*
 - pacifica*, **40B**, 407
 - vagabunda*, **40B**, 407
- Abdominal aorta, **39B**, 101
- Abramis brama*, **40B**, 1011
- Absence of synchrony, **39A**, 297
- Absorption, **39B**, 227; **40A**, 203; **40A**, 229
 - of acetate and pyruvate, **39B**, 1017
 - spectra, **39B**, 855
- Acanthocephala, **39B**, 541
- Acceleration of hatching, **39A**, 769
- Acclimation, **38A**, 1; **38A**, 709; **39A**, 277; **39A**, 361; **39A**, 413; **39B**, 747; **40A**, 213; **40A**, 495; **40A**, 681; **40A**, 789; **40A**, 833; **40B**, 465
 - to cold, **38A**, 141
 - to temperature, **39B**, 925; **40A**, 431
- Acclimatization, **40A**, 89; **40A**, 789; **40B**, 309
- Acetate, **38B**, 333; **39B**, 247; **40B**, 657 (1- ^{14}C)-acetate, **40B**, 723
- Acetate metabolism, **39B**, 167
- Acetic acid, **38B**, 379
- Acetyl coenzyme A, **40B**, 757
- N-acetyl-glutamate, **40B**, 395
- Acetylation, **39B**, 445
- Acetylcholine (see ACh)
- Acetylcholinesterase (see AChE)
- Achatina fulica*, **40A**, 113
- Acid
 - base balance, **40A**, 535
 - phosphatase, **38B**, 211; **39B**, 219; **40B**, 637
 - soluble nucleotides, **39B**, 701
- Acidic and neutral glycoproteins, **40A**, 971
- Aconitase, **38B**, 493
- Acridine orange, **40B**, 223
- Acridothores tristis*, **40B**, 139
- Acris*
 - crepitans*, **38A**, 1
 - gryllus*, **40A**, 771
- Acrylamide gel electrophoresis, **38B**, 53 (see also Polyacrylamide)
- Actin, **38A**, 147
- Actinomycin D, **39B**, 559; **40B**, 885
- Action potential(s), **38A**, 251; **38A**, 715; **40A**, 353
 - + Ba^{2+} , **39A**, 333
 - of ureter smooth muscle, **39A**, 301
- Activator of feeding, **40A**, 19
- Active
 - metabolism, **38B**, 635
 - transport, **39A**, 583; **39B**, 649; **40A**, 319; **40B**, 823
- Activities of biotin enzymes, **38B**, 285
- Adaptation, **38A**, 1; **40A**, 203; **40A**, 1043; **40B**, 907; **40B**, 917
- Adductor muscle, **38A**, 147
- Adenine, **40B**, 407
 - deaminase, **40B**, 407
 - nucleotides, **40B**, 407
- Adenosine, **40B**, 407
 - deaminase, **39B**, 969; **40B**, 1071
 - diphosphate (see ADP)
 - 5'-phosphate (see AMP)
 - triphosphate (see ATP)
- Adenylic acid, **40B**, 407
- Adipokinetic
 - effects in mammalian and avian tissue, **39B**, 69
 - hormones, **39B**, 69
- Adipose tissue, **39A**, 39; **40A**, 569
 - lipolysis, **39B**, 69

- Adrenal, **38A**, 183; **38A**, 763; **38B**, 697;
39A, 361; **40A**, 975
 Adrenaline, **38A**, 743
 action, **39A**, 45
 contact time, **39A**, 45
 Adrenergic
 blocking agents, **39A**, 45
 receptors, **39A**, 45
 Adrenocorticoids, **39B**, 131
 Adrenocorticotrophic hormone (see ACTH)
 Adult haemocyanin, **39A**, 735
 Advancement of lung ventilation, **39A**, 769
Aedes
 , **39B**, 569
 melifica, **38B**, 141
Aepyroceros melampus, **38A**, 525
 Aerial
 exposure, **39A**, 277
 respiration, **39A**, 147
 Aestivation, **38A**, 565
 African apes (see also Latin names), **39B**, 455
Agama stellio, **39B**, 919
 Age, **38B**, 5
 effects, **38A**, 675; **39B**, 237
 Aggregation, **40B**, 327
Agriomilax reticulatus, **40A**, 83; **40B**, 699
 Alanine, **40A**, 1015
Alaria marciannae, **40A**, 987
 Albacore (see also Latin name), **39B**, 719
 Albino rat (see also Latin name), **40A**, 659;
 40A, 841
 Albumin, **40B**, 327; **40B**, 585; **40B**, 733
 sub-units, **39B**, 83
Alcelaphus buscelaphus, **38A**, 525
 Alcohol(s), **39B**, 1
 dehydrogenase, **40B**, 1029
 Aldosterone, **40A**, 203
 Algal symbiosis, **40B**, 945
 Alginase activity, **38B**, 689
 Alkali-resistant haemoglobin, **39B**, 203
 Alkaline
 phosphatase, **38B**, 247; **38B**, 263;
 38B, 739; **39B**, 305; **40B**, 129;
 40B, 347
 phosphatase in various animals, **39B**, 311
 Alkaneodiol, **39B**, 1
 Allantoicase, **40B**, 863
 Allantoinase, **40B**, 863
 Alleles, **40B**, 521
 Allelic protein, **39B**, 195; **39B**, 503
 Alligator (see also Latin name), **39A**, 125
 deaminase, **39B**, 969
 Allosterism, **40B**, 359
 Alloxan diabetes, **40A**, 273; **40A**, 557;
 40A, 569
Alopex lagopus immutatus, **40B**, 309
 Alpha globin chains, **39B**, 455
 Aluminium, **38A**, 387
Ambystoma
 mexicanum, **40A**, 319; **40B**, 751
 talpoideum, **40A**, 771
 tigrinum, **40A**, 373
Amia calva, **38B**, 467
 Amino acid(s), **38B**, 1; **38B**, 87; **38B**, 93;
 38B, 383; **38B**, 405; **38B**, 537;
 39A, 743; **39B**, 31; **39B**, 499; **40A**, 229;
 40A, 399; **40A**, 617; **40A**, 899;
 40B, 113; **40B**, 335; **40B**, 715;
 40B, 741; **40B**, 797; **40B**, 945;
 40B, 1037
 analysis, **39B**, 195; **39B**, 503
 and carbohydrate compositions, **40B**, 37
 composition, **38B**, 609; **40B**, 475
 excretion in millipedes, **39A**, 611
 in blood, **40B**, 515
 in insects, **38B**, 347
 in salmon, migration, **40A**, 127
 in tunic, **40B**, 615
 incorporation, **40B**, 1011
 inhibition, **39B**, 305
 metabolism, **38A**, 713
 salinity, **40A**, 1015
 sequence, **38B**, 609; **39B**, 455
 transport, **39A**, 29; **39B**, 357
 uptake, **38A**, 713; **40A**, 431
 Aminoguanidine, **38A**, 435
 δ-Amino-levulinic acid, **39B**, 5
 Ammonia, **38A**, 163; **39A**, 633; **39A**, 761;
 39B, 409; **40A**, 999; **40B**, 407
 Ammonotelism, **40B**, 781
Amoeba
 dubia, **38A**, 477
 proteus, **38A**, 477
 Amphetamine, **40B**, 223
 Amphibia(n), **38A**, 1; **38A**, 163; **38B**, 247;
 38B, 739; **39A**, 823; **39A**, 833;
 40A, 213; **40A**, 603; **40A**, 771;
 40A, 911
 CNS, **38A**, 175
 enzyme induction, **39B**, 709
 gill, **40A**, 319
 skin, **40A**, 911
Amphitrite robusta, **40B**, 407
 Amylase, **38A**, 457; **38B**, 263; **40B**, 317;
 40B, 983
 in the alimentary system of birds, **40B**, 317

- Anaemia, **39A**, 391
 Anaerobic metabolism, **40A**, 945
 of molluscan neurons, **40A**, 595
 Analytical ultracentrifuge, **39B**, 673
Anas
 boscas, **40A**, 425
 fugigula, **39B**, 151
 platyrhynchos, **39B**, 69; **39B**, 151;
 40A, 203; **40B**, 313
 platyrhynchos domesticus, **38B**, 513
 Alpha- and beta-chains of globin, **38B**, 663
 Angiographic, **40A**, 107
 Angiotensin, **40A**, 249
 Angiotensinogen, **39A**, 823
Anguilla
 sp., **38B**, 537
 anguilla, **38A**, 435; **39A**, 357
 japonica, **38A**, 443
 rostrata, **40A**, 1087
 Animal(s), **39B**, 607
 erythrocyte carbonic anhydrases, **39B**, 489
 heat production, **40A**, 935
 Anion permeability, **39A**, 583; **40A**, 265
 Annelid, **40B**, 407
 feeding, **39A**, 553
Anodonta cygnea, **40A**, 595
Anolis carolinensis, **40B**, 741
 Anoxia, **38A**, 407; **39A**, 447
 in snails, **38B**, 753
Anser
 anser, **40B**, 489
 domesticus, **39B**, 69
 Antelope(s) (see also Latin name), **38A**, 525
 Anthropoid ape(s) (see also Latin names),
 39B, 659
 Anthropoidea, **39B**, 455
 Antibody(ies), **38B**, 523
 formation, **38A**, 571; **38A**, 827
 Anticestodal agents, **39B**, 627
 Antigen structure, **40A**, 445
 Antimony, **38A**, 387
 Antiserum, **38A**, 637
 Anura(n), **38A**, 1; **38B** 247; **38B**, 739;
 40A, 213; **40B**, 263
Aomidiella aurantii Mask, **39B**, 935
 Aortic
 arch, **39B**, 101
 cannulation, **38A**, 645
 lipid, **38A**, 675
 metabolism, **38A**, 675
 N₂, **39B**, 101
Aotus trivirgatus, **40B**, 489
Apanteles congregatus, **40A**, 871
Apis mellifera, **38B**, 129; **38B**, 141; **38B**, 197;
 39B, 335; **40A**, 935
 Aprn(o)ea, **40A**, 107; **40A**, 425
Apogon
 elliotti, **40A**, 163
 poecilopterus, **40A**, 163
 Apohaemocyanin, **40B**, 7
Arantia arbustorum, **39A**, 267
Aratinga canicularis eburnirostrum, **39A**, 653
Archachatina marginata, **40B**, 19
 Arctic mammals, **40B**, 309
Arctica islandica, **40A**, 955
Arctocephalus pusillus, **38B**, 471
 Argentation, **39B**, 823
 Arginase, **38B**, 295; **40B**, 781; **40B**, 819;
 40B, 863
 Arginine, **39A**, 29; **40A**, 649
 vasotocin, **40A**, 373
 Argininosuccinase, **38B**, 295
 synthetase, **38B**, 295
Arianta arbustorum, **39A**, 63
 Army ants, **38B**, 103
 Arousal from hibernation, **38A**, 645
Artemia salina, **38B**, 603; **39A**, 843;
 39B, 815; **40B**, 47
 Arteriosclerosis, **39B**, 101
 Arthropod(a), **40A**, 761
 defence secretions, **38B**, 723
 feeding, **39A**, 553
Artherurus macrourus, **40B**, 489
 Artificial stimulation of eggs, **39A**, 769
 Aryl sulfatase, **40B**, 637
Ascaris
 eggs, **40B**, 165
 lumbricoides, **39B**, 627; **40B**, 165;
 40B, 503
 mitochondria, **39B**, 627
 muscle, **40B**, 165
 suum, **38B**, 43; **40B**, 833
 Aschelminthes, **40B**, 459
 Ascidian(s), **40B**, 615
 Aspartic acid, **40B**, 1037
 Asphyxia, **40A**, 659
 Ass (see also Latin names), **39B**, 279
 Astacene, **40B**, 61
Astacus
 astacus, **38B**, 315
 fluviatilis, **38A**, 715
 leptodactylus, **39B**, 649; **39B**, 945;
 40A, 523
 Astaxanthin, **39B**, 945; **40B**, 47
Asterias rubens, **39B**, 979
 Astrocoeniina, **40B**, 113

- Atherosclerosis, **38A**, 675
- Atlantic
 leatherback (*Dermochelys coriacea*),
40B, 931
 loggerhead (*Caretta caretta caretta*),
40B, 931
- Atropine, **39A**, 795
- Atropinization, **39A**, 307
- Auditory
 masking in fish, **40A**, 1043
 responses, **40A**, 415
- Aurelia aurita*, **40A**, 855
- Australia, **38B**, 361
- Australian hylid, **40A**, 1109
- Autoradiography, **38A**, 713; **40A**, 987
- Autooxidation of oxymyoglobin, **39B**, 395
- Aves* sp., **40B**, 139
- Avian, **38B**, 513
 adipose tissue lipolysis, **39B**, 69
 cones, **40B**, 61
 foetal development, **39A**, 769
 kidney, **39A**, 29
 physiology, **38A**, 611
 respiration, **40A**, 425
- Axolotl, **40B**, 751
- Aythya fugigula*, **39B**, 151
- Br, **38A**, 387
- Back muscle, **38B**, 471
- Bacteria, **39B**, 607
- Balaenoptera*
borealis, **39B**, 299
physalus, **39B**, 299; **40B**, 683
- Balanus nubilis*, **40B**, 387
- Barisia* sp., **39A**, 125
- Basal metabolic rate, **39A**, 235; **40A**, 689
- Bat(s) (see also Latin names), **38A**, 129;
39A, 413; **39A**, 549
- Bear (see also Latin names), **40B**, 309
 liver, **38B**, 295
- Bee
 metabolism, **38B**, 141
 venom, **39B**, 963
- Beef, **39B**, 483
- Behaviour, **38A**, 37; **39A**, 743; **40A**, 19;
40A, 203
- Behavioural regulation, **38A**, 265
- Bence-Jones proteins, **38B**, 609
- Beta-like globin chains, **39B**, 455
- Bilatriene, **39B**, 739
- Bile, **40A**, 61
 salts, **40B**, 993
- Biliprotein, **39B**, 739
- Biliprotein (*cont.*)
 of *Bombyx*, **39B**, 317
- Biochemical
 divergence in char proteins, **38B**, 487
 homology, **39B**, 83
 polymorphisms, **39B**, 343
 population genetics, **38B**, 447
 taxonomy, **38B**, 447
- Bioconversion, **38B**, 603; **39B**, 815
- Bioelectric potentials, **40A**, 385
- Bioenergetics, **38A**, 723
- Biological
 halftime, **40A**, 789
 membranes, **38B**, 425
 rhythms, **39A**, 219; **39A**, 465
- Bioluminescence, **40A**, 163
- Biomphalaria pfeifferi*, **38B**, 35
- Biosynthesis, **38B**, 597
- Biotin deficiency, **38B**, 285
- Bipalium kewense*, **40B**, 395
- Bird(s), **38A**, 91; **40A**, 203; **40A**, 549
 flight, **39A**, 173
 metabolism, **40B**, 813
- Bivalve(s), **38A**, 619
- Bivalvia, **38B**, 689
- Blaberus discoidalis*, **38B**, 723
- Black-headed gull (see also Latin name),
38A, 743
- Bladder, **40A**, 1055
- Blattella germanica*, **38B**, 723
- Blind snake (see also Latin name), **38B**, 103
- Blood, **38A**, 699; **38B**, 247; **38B**, 739;
39A, 267; **39B**, 203; **40A**, 865;
40B, 189; **40B**, 423
 cells, **40A**, 543
 cholesterol in reptiles, **38B**, 459
 coagulation, **40A**, 635
 composition, **38A**, 129
 electrolytes during hibernation, **38A**, 645
 forms, **39B**, 247
 glucose in snails, **39A**, 605
 of *Urechis*, **38B**, 463
 organic constituents, **39B**, 209
 oxygen capacity, **40A**, 1065
 oxygen tensions, **39A**, 307
 pH, **39B**, 209
 plasma, **38A**, 541
 protein, **39A**, 735; **40B**, 923
 saturation, **39A**, 505
 sugar, **39A**, 447
 vessel, **39A**, 795
 viscosity, **39A**, 869
- Blowfly metamorphosis, **38B**, 211

- Blubber oils, **40B**, 683
 Bluefin tuna (see also Latin name), **39B**, 719
 Bluegill sunfish (see also Latin name), **40A**, 609
 Bobwhite and Japanese quail (see also Latin names), **39A**, 769
 Body
 composition, **39A**, 671
 fluids, **38B**, 361
 size, **38A**, 351; **39A**, 277
 temperature, **38A**, 59; **39A**, 413; **40A**, 859
 temperature in birds, **39A**, 173
 weight, **38A**, 709
Boeckella triarticulata, **38B**, 361
 Bohr effect, **38B**, 585; **39B**, 855; **40B**, 1045
Bombyx mori, **39B**, 317
 Bone, **38B**, 247; **38B**, 739
 carbohydrate, **40B**, 283
 marrow, **40A**, 89
 mucopolysaccharides, **40B**, 283
Bos
 taurus, **39B**, 119; **39B**, 173; **39B**, 305; **39B**, 395; **39B**, 489; **40B**, 489
 typicus, **38B**, 53
 Bovine, **38B**, 707; **40B**, 1071
 myoglobin, **39B**, 395
 serum, **40B**, 983
 Brackish water, **38B**, 361
 Braconid(ae), **40A**, 871
 Bradycardia, **39A**, 447
 Brain, **38B**, 697; **40B**, 841
 amino acids, **40A**, 127
 Branchial
 blood flow, **39A**, 391
 ion exchange, **39A**, 391
 Breeder rats, **39A**, 101
 Bromide, **38A**, 309
 Bromine, **38A**, 387
 5-Bromindoxyl acetate, **39B**, 483
 Brook trout (see also Latin name), **38A**, 489; **40B**, 465
 Brown
 adipose tissue, **38A**, 723; **40A**, 1107
 fat, **38A**, 723; **39A**, 39
 Brush borders, **39B**, 617
Bubo virginianus virginianus, **39B**, 69
Buccinum undatum, **40B**, 37
 Bucher shuttle, **38B**, 543
 Budgerigars (see also Latin name), **38A**, 91; **39B**, 151; **39A**, 173
Bufo
 sp., **40A**, 771
 americanus, **40B**, 263
Bufo (cont.)
 arenarum, **38A**, 655; **39A**, 823; **39A**, 833
 bufo, **38A**, 473
 bufo gall-bladder, **38A**, 473
 cognatus, **39A**, 447
 marinus ictericus, **38B**, 553
 paracnemis, **39A**, 823
 viridis, **39A**, 919; **40A**, 911
Bulbulcus ibis, **40B**, 317
Bulimulus dealbatus, **38A**, 565
 Bullfrog (see also Latin name), **38A**, 457; **40B**, 733
 Bullhead, **40A**, 833
 Buoyancy of eggs, **39A**, 683
 Burrow system, **40A**, 119
 Bursa of Fabricius, **38B**, 411
Butastur indicus, **39B**, 151
 Butterfly, **40B**, 715
¹⁴C
 incorporation *in vitro*, **40B**, 723
 metabolism, **40B**, 109
 release, **39B**, 101
 -urea tissue distribution, **40A**, 145
 C57 mice, **40A**, 649
 Ca²⁺ on ureter, **38A**, 301
 Ca binding, **38A**, 285; **38A**, 369
 CBA/FA Cam mice, **39B**, 131
 Cl, **38A**, 387
 5'-CMP, **40B**, 347
 C.N.S., **38B**, 529
 CO₂ (carbon dioxide), **39A**, 599, **40A**, 425
 anaesthesia, **38A**, 509
 fixation, **38B**, 43; **39B**, 435
 permeability, **39A**, 119
 -sensitve receptors, **40A**, 425
 Cu, **38A**, 387
 Caesium, **38A**, 251; **40A**, 751
 Caffeine, **38A**, 285
Caiman
 sp., **39A**, 125; **40B**, 741
 latirostris, **40B**, 741
Calamoecia tasmanica, **38B**, 361
 Calcium, **38A**, 541; **38A**, 733; **38B**, 553
 and copper in mullet plasma, **38B**, 451
 spike in heart muscle, **40A**, 353
 spikes, **40A**, 281
Callianassa californiensis, **40A**, 1
Callinectes sapidus, **39A**, 367
Calliphora erythrocephala, **38B**, 21
Cambarus
 bartoni, **40B**, 781
 robustus, **40A**, 265

- Camel (see also Latin name), **40B**, 489
Camelus bactrianus, **40B**, 489
Campeloma decisum, **40B**, 1037
 Canine pepsin, **39B**, 715
Canis
 familiaris, **38B**, 697; **39B**, 69; **39B**, 119; **39B**, 489
 familiaris dingo, **40B**, 489
 lupus tundrae, **40B**, 309
 Canthaxanthin, **40B**, 47
 Cape fur seal (see also Latin name), **38B**, 471
Capra
 hircus, **39B**, 489
 ibex, **39B**, 119
 Caput, **39A**, 599
Carassius
 auratus, **39A**, 1; **39A**, 209; **39B**, 357; **39A**, 747; **40A**, 431; **40A**, 999; **40A**, 1043
 morosus, **40A**, 761
 Carbamyl phosphate synthetase, **38B**, 295; **40B**, 395
 Carbohydrate(s), **40A**, 305; **40A**, 777
 digestion, **38B**, 5
 digestion in *Lymnaea*, **39A**, 605
 metabolism, **38B**, 43; **39B**, 89; **39B**, 873
 Carbon dioxide (see CO_2)
 Cardio-respiratory specializations, **40A**, 89
Caretta caretta caretta, **40B**, 931
 Carnitine acetyl transferase, **39B**, 425
 Carnosine, **38B**, 537
 Carotene
 α -, **40B**, 47
 β -, **40B**, 47
 Carotenoids, **39B**, 945; **40B**, 47; **40B**, 61
 containing lipoprotein, **38A**, 317
 Carotenoproteins, **39B**, 1039; **40B**, 295
 Casein digestion, **38B**, 507
 Caste-specific protease pattern, **38B**, 197
 Cat (see also Latin name), **38B**, 299; **39B**, 25; **40A**, 257
 Catalase, **38B**, 263
 Catecholamines, **39A**, 859
 Catfish (see also Latin name), **40A**, 399
 Cathepsin
 A, **38B**, 651
 B, **38B**, 651
 C, **38B**, 651
 D, **38B**, 651
 Cation(s), **38A**, 541; **40A**, 543
 levels, **39A**, 267
 in amoeba, **38A**, 477
 of salmon plasma and tissues, **38A**, 99
 Cation(s), (cont.)
 permeability, **39A**, 583
 transport, **39B**, 955; **39A**, 807
 Cationic amino acids, **39A**, 29
 Cauda, **39A**, 599
Cavia
 cobaya, **39B**, 701
 porcellus, **38A**, 301; **38B**, 299; **38B**, 697; **39B**, 25; **39B**, 119; **39B**, 489; **39B**, 689; **40A**, 305; **40B**, 71; **40B**, 81; **40B**, 489
 Ceboidea, **39B**, 797
Cebus
 albifrons β chain, **39B**, 797
 nigrivittatus, **39B**, 659
 Cell
 counts, **39B**, 203
 differentiation, **39B**, 227
 division, **38A**, 591; **40B**, 381
 fractionation, **40B**, 637
 free systems, **38B**, 239
 geometry, **40A**, 579
 growth, **40B**, 381
 metabolism, **40A**, 487
 morphology, **40A**, 579
 sap, **38B**, 239
 Cellular volume, **39A**, 103
 Cellulose acetate electrophoresis, **38B**, 53; **38A**, 317
 Central nervous system acclimation, **40A**, 833
 Centrifugation, **40B**, 481
 Centropagidae, **38B**, 361
Cepaea hortensis, **39A**, 267
Cephalogomimus americanus, **38A**, 713
 Cephalopoda, **38B**, 707; **40B**, 199
 Cephalothoracic nerve mass, **39B**, 499
Ceratitidis capitata, **38B**, 109
Cercopithecus talapoin, **39B**, 639
 Cerebral
 cortex, **39A**, 437
 development, **39B**, 725
 Cerebrospinal fluid, extra dural fluid, **40A**, 145
 Cestoda, **40B**, 885
 Cestode physiology, **40A**, 777
 Cetyl palmitate, **40B**, 945
 Chameleon (see also Latin name), **40B**, 741
 Char
 esterase, **38B**, 487
 eye lens proteins, **38B**, 487
 lactate dehydrogenase, **38B**, 487
 Characteristics, **40B**, 781
 Characterization, **38B**, 129

- Chelating agents, **39B**, 395
 Chelators, **40B**, 623
Chelydra serpentina serpentina, **38A**, 53;
40B, 931
 Chemical
 composition, **40B**, 797
 control of feeding, **39A**, 553
 senses, **40A**, 399
 Chemically defined medium, **40B**, 327
 Chemotaxis, **39A**, 665
 Chick(en) (see also Latin name),
 38B, 239; **38B**, 285; **40B**, 723;
 40A, 1029
 bone, **40B**, 213
 embryo, **38B**, 239
 embryo cells, **39A**, 649
 embryo neural retina cells, **40B**, 327
 insulin, **39B**, 267; **40A**, 273
 metabolism of fats, **39A**, 177
 serum, **39B**, 523
 Chimpanzees (see also Latin names),
 39B, 659
 Chinese goose (see also Latin name),
 40A, 445
 Chiroptera, **39A**, 549
 Chitin, **40B**, 757
 biosynthesis, **39B**, 559; **40B**, 341
 isolation, **40B**, 341
 synthesis, **40B**, 341
 synthetase, **40B**, 757
 Chloramphenicol, **40B**, 855
 and protein synthesis in nerve, **38B**, 393
 Chloride
 cell, **38A**, 443; **40A**, 319
 transport, **39A**, 367
 Chlorinated hydrocarbon pesticides,
 40B, 823
 Chlorine, **38A**, 387
 Chloroplasts, **38A**, 233
 Cholesterol, **38B**, 603; **39B**, 167; **39B**, 815;
 40B, 423
 content, **40B**, 723
 in turtle serum, **38B**, 459
 level in turtles' blood, **38B**, 459
 Cholesteryl esters, **40B**, 723
 Choline, **40B**, 657
 esterase, **38B**, 529; **39A**, 63; **39A**, 583;
 39A, 795; **39B**, 423; **39B**, 879;
 39B, 1023
 esterase in starfish, **39B**, 979
 Chromatography of feather proteins,
 39A, 325
 Chromium-51, **40A**, 349
 Chromoprotein of insect, **39B**, 317
 Chronic
 exposure, **38B**, 373
 restraint, **39A**, 545;
 Chronotrope, **39A**, 795
Chrysaora quinquecirrha, **40A**, 855
Chrysemys
 picta, **39B**, 689
 picta belli, **38A**, 53
Chrysomphalus aonidum L., **39B**, 935
Chthonius ischnocheles, **40B**, 475
 Chymotrypsin, **38B**, 697
Cichlasoma cyanoguttatum, **38B**, 585
 Cichlidae, **38A**, 329
 Ciconiiformes, **39B**, 151
 Cilia, **40A**, 971
Ciprinus carpio, **39B**, 701
 Circadian rhythm, **38A**, 213; **38A**, 591;
 39B, 89; **39B**, 279; **40A**, 459
 Circular dichroism, **39B**, 855
 Circulation, **39A**, 298
 Circulatory pressures, **39A**, 193
 22-Cis-cholesta-5,22-dien-3 β -ol, **38A**, 581
Citellus
 lateralis, **38A**, 239; **38A**, 469; **38A**, 517
 38A, 645; **39A**, 671
 tridecemlineatus, **38A**, 469; **38A**, 763;
 39A, 437; **40A**, 405; **40A**, 815
 Citrate, **39B**, 435
 synthase, **38B**, 493
 Civet (see also Latin name), **40B**, 571
Civettictis civetta, **40B**, 571
 Clam muscle fibres, **38A**, 339
Claudius angustatus, **40B**, 931
Clemmys caspica, **39B**, 83
Clethrionomys rutilus, **40B**, 601
 Click response depression, **40A**, 1043
 Climate, **38A**, 183
 Cloacal sac secretion, **38B**, 103
 Clouding of lens, **40B**, 945
 Coagulating gland, **40A**, 305
 Coagulation
 factors, **38A**, 157
 mechanisms, **38A**, 157
 Cobalamines, **40B**, 301
 Cockerel (see also Latin name), **39B**, 55
 Cockroach (see also Latin name), **38B**, 529;
 39B, 423; **40A**, 295; **40A**, 579
 Coelenterata, **39A**, 743
 pigments, **39B**, 1039
 Coelenterate feeding, **39A**, 553; **40A**, 19
 Cold, **38A**, 709; **40A**, 935
 agglutinins, **38B**, 523

- Cold, (*cont.*)
 climate mammals, **38A**, 723
 compensation, **40B**, 671
 death, **39A**, 625
 exposure, **40B**, 309; **40B**, 601
 physiology, **38A**, 723
Colinus virginianus, **39A**, 769
Colisa fasciata, **39B**, 89
 Collagen, **39B**, 173; **40B**, 797
 synthesis, **40B**, 165
 Collagenolysis, **40B**, 623
 Collagenolytic activity of snake venom,
 39B, 963
 Colon tissue in rat, **40A**, 823
 Colour, **39B**, 395
 change, **38A**, 17; **39A**, 531
 in *Physalia*, **39B**, 739
Columba
 livia, **38B**, 447; **39A**, 173; **40A**, 425;
 40A, 459; **40A**, 549
 livia domestica, **39B**, 701; **40B**, 139
 palumbus, **38B**, 447; **40B**, 489
 Columbidae, **38B**, 447
 Common snapping turtle (see also Latin
 name), **40B**, 931
 Comparative
 enzymology, **39B**, 383
 enzymology of arginase, **40B**, 781
 insulin potency, **39B**, 267
 mammalian haematology, **40A**, 89
 properties, **39B**, 775
 study, **39B**, 483
 Comparison of lactate dehydrogenase
 isozymes, **38B**, 471
 Compensation, **40A**, 833
 Competition of trypsin and chymotrypsin,
 40B, 439
 Complement, **38B**, 523; **38A**, 483
 fixation, **38A**, 637
 Complexes of macroglobulin trypsin and
 chymotrypsin, **40B**, 439
 Compound ascidian, **39A**, 795
 Concentration(s), **39B**, 701
 determination, **39B**, 855
 of myoglobin, **38A**, 53
 of pyridine nucleotides in gill, **40B**, 531
 Conditioning-avoidance, **40B**, 223
 Conductance, **40A**, 715
Coenpatus mesoleucus, **38B**, 353
 Conformational changes in proteins,
 39B, 855
 Conger eel (see also Latin name), **40B**, 489
Conger vulgaris, **40B**, 489
 Congo red, **40B**, 223
 Conjugation, **39B**, 25; **40A**, 61; **40A**, 257
 Connected zooids, **39A**, 795
 Contraction, **40A**, 639
 Control
 mechanisms, **39B**, 747
 of oxygen uptake, **40A**, 1065
 Conversion efficiency, **38A**, 449
 Cool-temperature reptiles, **39A**, 495
 Co-operativity, **38B**, 585
 Copepoda, **38B**, 361
 Copepods' fatty acids, **40B**, 275
 Copper, **38A**, 309; **38A**, 387
 binding, **40B**, 7
 detection, **40A**, 479
 proteins, **39A**, 735
 Cornea, **39B**, 173; **40A**, 487
 Corneal stroma, **39B**, 173
 Correlation diving capacity, **38B**, 471
 Corticosterone, **38A**, 743; **38A**, 763;
 40A, 459; **40B**, 813
Corvus splendens, **40B**, 317
 Cottontail (rabbit) (see also Latin name)
 39A, 657
Coturnix
 sp., **38A**, 541
 coturnix japonica, **39A**, 769; **39A**, 653;
 39B, 789; **40B**, 61
 pectoralis, **39B**, 1
 Coumarin, **39A**, 553
 Coupling, **38B**, 21
 Cow (see also Latin name), **39B**, 395
 Crab gills, **39A**, 367
Crangon
 blood, **38A**, 461
 vulgaris, **38A**, 461
Crassostrea virginica, **39B**, 579
 Crayfish (see also Latin name), **38B**, 315;
 39B, 227; **39B**, 559; **39B**, 945;
 40A, 181; **40B**, 781; **40B**, 863
 gills, **39B**, 649
 moulting, **40B**, 341
 muscle, **40A**, 265
 Creatine, **40A**, 805
 phosphate, **40A**, 805
Crepidula fornicata, **39B**, 139
Cricetus cricetus, **40A**, 305
 Cristae, **38B**, 43;
 Critical thermal maxima (CTM), **40A**, 1109
 Cropsac, **40A**, 459
 Cross
 linking, **40B**, 37
 reaction, **39B**, 83

- Crotalus*
 sp., **39A**, 125
atrox, **40B**, 623
 Crowding effect, **40A**, 777
 Crustacea, **38A**, 461; **38A**, 769; **39B**, 31;
39B, 815; **40A**, 1; **40B**, 531; **40B**, 781
 Crustacean
 blood, **40A**, 479
 C.N.S., **38A**, 407
 egg proteins, **38A**, 317
 haemolymph, **40A**, 155
 muscle, **39A**, 643; **40A**, 181
 osmoregulation, **39A**, 483
 serum proteins, **38A**, 317
 stretch receptor, **40A**, 523
 Crustacyanin, **40B**, 295
 Cryptobiosis, **39A**, 843
 Cryptorchidism, **38A**, 705
Crysomía rufiferacis, **38B**, 211
 Crystallin
 α -, **38A**, 637
 γ -, **40B**, 959
 Crystalline style, **38B**, 689
 enzymes, **38B**, 263
 Crystallization of haemoglobin, **39B**, 551
Culex pipiens, **38B**, 627
 Culture forms, **39B**, 247
 Current application by suction electrode,
38A, 301
 Cutaneous
 blood flow, **40A**, 503
 evaporation, **38A**, 611
 Cuticle, **39B**, 559
 formation, **40B**, 121
Cyanea capillata, **40A**, 855
 Cyanide
 -resistant respiration, **38B**, 723
 tolerance in millipedes, **38B**, 723
 Cycles, **40A**, 935
 Cyclic AMP, **38A**, 285
 3'5'-Cyclic AMP, **40A**, 135
 Cycloheximide, **40B**, 223; **40B**, 741;
40B, 855
 and protein synthesis in nerve, **38B**, 393
Cylindroiulus londinensis, excretion, **39A**, 611
Cypridina hilgendorfi, **40A**, 163
Cyprinodon rubrofluviatilis, **40A**, 711
Cystophora cristata, **40A**, 805; **40B**, 579
 Cytochrome(s), **38B**, 609; **38A**, 509
 -c-oxidase, **38B**, 43
 Cytoplasmic links, **40B**, 481
 Cytosomes, **40A**, 595
 DDT, **38B**, 373; **38A**, 279; **40B**, 823
 DNA
 content, **38A**, 591
 synthesis, **38A**, 591; **39A**, 723; **40A**, 487
 synthesis and brown fat, **38A**, 723
 DNA-ase, **40B**, 1057
Dacus oleae, **38B**, 109
 Daily rhythm, **40A**, 487
Dasyatis
americana, **39B**, 415
sabina, **39A**, 505
Dasyercus cristicauda, **40A**, 723
Dasyurus
maculatus, **39B**, 209
viverrinus, **39B**, 203; **39B**, 209
 De Geer, **38A**, 509
 Deaminase, **39B**, 969
 Deceleration of molecular evolution,
39B, 455
 Dehydration, **38A**, 129; **39A**, 403
 Dehydrogenases in rat, mouse, rabbit and
 gerbil, **40B**, 93
 Delayed current, **40A**, 715
 Dendograms, **39B**, 455
Dendrohyrax arboreus, **39B**, 1049
 Dendrophylliina, **40B**, 113
 11-Deoxycortisol, **39B**, 131
 Deoxyribonuclease-3-oligonucleotido-
 hydrolase, **40B**, 1057
 Depression of freezing point, **40A**, 83
Dermatemys mawi, **40B**, 931
Dermochelys coriacea, **40B**, 931
 Desert
 adaptation, **39A**, 75
 mice (see also Latin name), **38A**, 37
 spiny lizard (see also Latin name),
40A, 467
 tortoise, **40A**, 119;
Desmognathus ochrophaeus, **40A**, 603;
40A, 681
 Developing honey bee, **39B**, 335
 Development, **38B**, 627; **39A**, 843; **40B**, 165
 of cestodes, **40A**, 777; **40B**, 885
 of homeothermy, **38A**, 611
 Dextran space, **40A**, 45
 Diabetes, **40A**, 569
 Diabetic plasma inhibition, **40A**, 273
Diadumene leucolena, **40B**, 907; **40B**, 917
 Diamine oxidase, **38A**, 435
 Diamox, **38A**, 489
 Diaphragm, **39A**, 437
Dicrostonyx groenlandicus, **40A**, 975
 Dieldrin, **38B**, 373

- Diet, **38B**, 5; **38B**, 459; **40A**, 367
carotenoid-free, **40B**, 61
- DIETARY
lipid, **40B**, 215
stress, **39A**, 657
zinc, **40B**, 129
- Diethylstilboestrol, **39B**, 25; **40A**, 257
- Differential pH optimum, **39B**, 695
- Differentiation, **39A**, 843
of blood proteins, **40B**, 923
of brown fat, **38A**, 723
- Diffusion, **39B**, 1017
coefficient, **40B**, 19
- Digestive
enzymes, **38B**, 235
gland, **40B**, 335
proteinases, **38B**, 235
- Dingo (see also Latin name), **40B**, 489
- Diols, **39B**, 1
waxes, **39B**, 151
- Dipeptidase, **38B**, 507
- 2,3-Diphosphoglycerate, **38A**, 469; **39A**, 807
- Dipodomys*
merriami, **39A**, 361; **39A**, 379
microps, **39A**, 379
- Dirofilaria immitis*, **38B**, 493
- Disappearance rate, **40A**, 495
- Disc electrophoresis, **39B**, 291; **39B**, 325;
40B, 733; **40B**, 1011
- Dissociation-association, **40B**, 1045
- Dithiazanine, **39B**, 627
- Diurnal
fluctuations, **38A**, 591
rhythm, **38A**, 129; **40A**, 925
- Divalent
cation spikes, **39A**, 333
ions, **38A**, 285
- Diving, **40A**, 107; **40A**, 805; **40B**, 579
response, **40A**, 659
- Dog (see also Latin name), **38B**, 697
- Dogfish (see also Latin name), **39A**, 297;
39A, 307; **39A**, 505; **40B**, 489
- Dolphins (see also Latin name), **40B**, 423
- Domestic fowl (see also Latin name),
39B, 683; **40B**, 215
- Donkey (see also Latin name), **38B**, 439;
39B, 279
- Dopamine, **40B**, 321
- Dorsal ganglion, **39A**, 795
- Drinking, **38A**, 541; **40A**, 547
- Drosophila*
affinis, **40B**, 1029
funnebris, **39A**, 521
- Drosophila* (cont.)
intra- and inter-specific variations,
40B, 1029
hydei, **40B**, 1029
melanogaster, **38B**, 309; **40B**, 321;
40B, 709; **40B**, 1029
simulans Amherst, **40B**, 1029
simulans Geottrgetown, **40B**, 1029
virilis Texemelucan, **40B**, 1029
- Drug sensitivity, **39B**, 775
- Duck (see also Latin name), **38B**, 513;
39B, 151; **40A**, 203; **40A**, 425; **40A**, 543
and turkey, **40B**, 313
whistling duck, **40A**, 445
- Dugesia hertzi*, **40B**, 387
- Dye injection, **40A**, 295
- Dysdercus cingulatus*, **40B**, 515
- ERG, **39A**, 457
- Echidna, **40A**, 249
- Echinococcus*
sp., **39B**, 167
gramulosus, **40B**, 25; **40B**, 797
- Echinodermata, **38B**, 689
- Echinone, **40B**, 47
- Echiurus echiurus*, **38B**, 507
- Ecological distribution of birds, **39A**, 671
- Ecology, **40A**, 213
of birds, **39A**, 235
- Eel (see also Latin name), **38A**, 443,
38B, 537
- Effect
of buffer concentration on electrophore-
gram, **39B**, 483
of buffer pH on electrophoregram,
39B, 483
of diet and temperature, **38A**, 449
of diet on liver enzymes, **40B**, 71
of fasting on liver enzymes, **40B**, 71
of osmolarity on carbohydrate metabolism,
40B, 531
on turtle serum cholesterol, **38B**, 459
- Effectiveness of sugars, **39B**, 367
- Efferent feedback, **38A**, 265
- Efflux of extracellular markers, **40A**, 45
- Egg(s), **40A**, 771; **40B**, 165
capsule, **40B**, 37
haemocyanin, **38A**, 317
ionic content, **38B**, 553
production, **40A**, 1097
white proteins, **40B**, 147
- Egret (*Egret alba*), **39B**, 151
- Eider (see also Latin name), **40B**, 579

- Eisenia foetida*, **38B**, 147; **38B**, 179
 blood, **38B**, 179
 tissue extract, **38B**, 165
 Elapids, **39B**, 1023
 Elasmobranch(s), **40A**, 145
 urea, **39A**, 185
 Elastoidin, **40B**, 797
 Electral
 activity of C.N.S., **38A**, 655
 coupling, **40A**, 579
 stimulation, **39A**, 795; **40A**, 639
 Electrocardiology, **40A**, 881
 Electrochemical gradient, **39A**, 807
 Electrode potentials, **38A**, 715
 Electroencephalogram, **38A**, 655
 Electrogenic sodium pump, **38A**, 251;
40A, 751
 Electrolyte(s), **38A**, 655
 Electrometer amplifier, **40A**, 385
 Electromyography, **40A**, 859
 Electron
 acceptor capacity of the lipochrome pig-
 ment, **40A**, 595
 microscopy, **38B**, 43; **39B**, 227; **39B**, 913;
40B, 481; **40B**, 1045
 transport, **39B**, 627
 Electrophoresis, **39B**, 19; **39B**, 195;
39B, 503; **39B**, 523; **39B**, 879;
40A, 479; **40B**, 207; **40B**, 313;
40B, 751
 of mullet plasma, **38B**, 451
 of woodlouse blood, **39A**, 735
 Electrophoretic
 carbonic anhydrase isozymes, **39B**, 489
 characterization, **39B**, 299
 mobility of carbonic anhydrase isoen-
 zymes, **38B**, 707
 Electrophysiology of myocardial cells,
39A, 333
 Electroretinogram, **39A**, 457
 Electrostatic, **40A**, 925
 Elemental composition, **38A**, 387
Elephas maximum, **38B**, 353
Eleutherodactylus coqui, **39B**, 1053
 Elongation, **39B**, 823
Elops hawaiiensis, **40B**, 181
 Embryo cells O₂ uptake, **39A**, 649
 Embryonic
 development of chick, **39B**, 843
 haemocyanin, **40B**, 923
 Emetine, **40B**, 855
Emys orbicularis, **39B**, 83
 Encystment, **39A**, 843
 Endo-amylase, **40B**, 983
 Endogenous enzyme control, **38B**, 211
 Endopeptidase(s), **38B**, 197
 Endoplasmic reticulum, **39B**, 843
 Energetics, **38A**, 723; **39A**, 807
 Energy, **38B**, 373
 conservation, **38B**, 309
 cost, **39A**, 807
 extraction efficiency, **38A**, 449
 for contraction, **39B**, 689
 metabolism, **38A**, 449; **39B**, 627;
39A, 379
 sources, **40A**, 805
 utilization, **39A**, 549
 utilization of embryo cells, **40A**, 649
 Enolase, **39B**, 383
 Environment, **40B**, 207
 physiology, **38A**, 611
 Enzyme(s), **38B**, 247; **38B**, 507; **38B**, 739;
39B, 1023; **40B**, 241
 absorption, **38B**, 697
 activation, **39B**, 709; **39B**, 935
 alleles, **39B**, 285
 and substrate concentration, **39B**, 935
 assay, **40B**, 481
 during metamorphosis, **38B**, 225
 inhibition, **39B**, 935
 kinetics, **39B**, 715; **40B**, 433; **40B**, 671
 of glycolysis, **39B**, 237
 of steroid metabolism, **38B**, 411
 structure and polymorphism, **39B**, 569
 substrate affinity, **38B**, 635; **40B**, 249;
40B, 671
 Epididymis, **39A**, 599
 Epinephrine, **38A**, 285; **39B**, 69
Eptesticus fuscus, **40A**, 809
 Equine immunoglobulins, **38A**, 439
Equus
asinus, **38B**, 439; **39B**, 279; **39A**, 403
caballus, **38B**, 439; **39B**, 119; **39B**, 279;
39B, 395; **39B**, 489
zebra, **38B**, 439
 Ergosterol, **38B**, 603
Erinaceus europaeus, **38A**, 571; **38A**, 827;
40A, 89; **40B**, 489
Eriocheir sinensis, **38A**, 317
Erythrocebus patas, **40B**, 489
 Erythrocyte(s), **38A**, 777; **39B**, 445;
39A, 583; **40B**, 423
 membrane, **40B**, 543
 Erythromycin, **40B**, 855
 Erythropoiesis, **40A**, 349; **40A**, 517;
40B, 155

- Escherichia coli*, **39B**, 305; **39B**, 955
 Eserine, **39A**, 795
Esox lucius, **39B**, 305
 Esterase(s) **39B**, 227; **39B**, 483; **39B**, 1023
 in starfish, **39B**, 979
 Estradiol, **39B**, 25; **40A**, 257
 -17 β , **40B**, 1005
 Estrogen (see Oestrogen(s))
 Esterolytic and proteolytic activities of
 complexes, **40B**, 439
 Estrone (see Oestrone)
 Estuaries, **38B**, 361
 Estuarine coelenterate, **40B**, 907; **40B**, 917
 Ethanolamine, **40B**, 657
 Ethylene dibromide, **39B**, 61
Euglandina rosea, **38A**, 663
Euphausia
 pacifica, **40A**, 163
 similis, **40A**, 163
Eurosta solidaginis, **38B**, 87
 Eurythermal, **40B**, 207
Euryurus leachii, **38B**, 723
Euthynnus yaito, **40B**, 181
 Evaporative water loss, **38A**, 611; **39A**, 53
 Evoked neural discharge, **38A**, 279
 Evolution, **38B**, 609; **40A**, 669
 of globin, **38B**, 119
 of haemoglobin, **39B**, 797
 of proteins, **39B**, 855
 Excised gill, **39A**, 699
 Excitatory junction potential, **39A**, 643
 Excretion, **38A**, 465; **39A**, 785; **40A**, 61;
 40A, 203; **40A**, 257; **40B**, 503
 in millipedes, **39A**, 611
 in *Mya*, **39A**, 633
 in teleosts, **39B**, 409
 Excretory physiology, **38A**, 713
 Exercise, **38A**, 203; **38B**, 373
 Exo-amylase, **40B**, 983
 Exogenous stimulus, **38A**, 591
 External receptors, **39A**, 147
 Extinction
 and sedimentation coefficients of IgG
 globulin of various equine species,
 38B, 439
 coefficients of proteins, **39B**, 855
 Extracellular space, **39A**, 45; **40A**, 45
 Extract
 from monkey tongue, **39B**, 367
 from rat tongue, **39B**, 367
 Extrarenal, **40A**, 203
 Eye(s), **39A**, 975
 F-actin, **38A**, 147
 Fe, **38A**, 387
⁵⁹Fe, **40A**, 517
 Face immersion, **40A**, 659
 "Facultative" water absorption, **40A**, 823
 Faecal water loss, **40A**, 797
 Falconiformes, **39B**, 151
Fasciola
 gigantica, **40A**, 453
 hepatica, **38B**, 379; **39B**, 435; **39B**, 1017
 Fat
 body, **40B**, 53; **40A**, 871
 in body, **40A**, 771
 in mollusc muscle, **40A**, 55
 Fat-tail marsupials, **40A**, 723
 Fatty acid(s), **38B**, 379; **39A**, 709; **39B**, 1;
 39B, 183; **39B**, 579; **39B**, 1049; **40B**, 1;
 40B, 189; **40B**, 683; **40B**, 893
 biosynthesis, **39B**, 183
 composition, **40B**, 931
 conversion, **40A**, 1097
 in membranes, **39B**, 357
 metabolism, **38B**, 333; **40B**, 931
 of copepods, **40B**, 275
 oxidation, **39B**, 247
 synthesis, **40B**, 657
 uptake, **39B**, 247
 Faviina, **40B**, 113
 Feather
 proteins, **39A**, 325
 rachis, **39A**, 325
 Feeding, **39A**, 665; **39A**, 743; **40A**, 19;
 40A, 833
 attractants, **39A**, 553
 behaviour, **39A**, 553
 reflex, **40A**, 833
 repellants, **39A**, 553
Felis
 catus, **39B**, 25; **40A**, 257
 onca, **38B**, 353
 sylvestris, **38B**, 299
 Female
 fatty acid composition in millipedes,
 40B, 1
 limited proteins, **39B**, 291
 Ferritin(s), **39B**, 325; **40B**, 199
 Fibrils, **40B**, 481
 Fibrinolysis, **40A**, 635
 Fiddler crab (see also Latin name), **38A**, 17;
 39B, 291
 Finches (see also Latin name), **38A**, 91
 Fine structure, **39B**, 227

- Fish(es), **38A**, 787; **39B**, 373; **38B**, 501;
39A, 45; **39A**, 531; **39A**, 743; **39B**, 747;
40A, 145; **40A**, 535; **40A**, 609
 brain, **40A**, 733
 eye, **39B**, 719
 gill, **38A**, 443
 haemoglobin, **38B**, 585
 juice, **39A**, 665
 LDH, **39B**, 925
 muscle, **38B**, 537
 muscle temperature, **38A**, 203
 respiration, **40A**, 391
 Salmonidae, **40B**, 207
 Flavins, **39B**, 627
 Flight, **39A**, 173
 muscle, **38A**, 91
 Fluid flow, **39A**, 785
 Fluorescent
 histochemistry, **39A**, 859
 light, **39B**, 395
 Follicle, **39B**, 61
 Food, **39A**, 743
 requirements, **39A**, 235
 Forced swimming, **38B**, 373
 Forebrain stimulation, **40A**, 733
 Formalin-resistant acid phosphatase,
39B, 219
 Formylkynurenine formation, **39B**, 709
 Fossil proteins, **38B**, 93
 Fox (see also Latin name), **40B**, 309
 Fractionation of feather proteins, **39A**, 325
 Free
 amino acid excretion, **40A**, 453
 amino acids, **38B**, 179; **38A**, 619
 amino acids in animal carcasses, **38B**, 679
 amino acids in various species, **38B**, 679
 fatty acids, **38B**, 103; **40B**, 309; **40B**, 813
 nucleotides, **38B**, 165
 porphyrins, **39AB**, 5
 short-chain fatty acids, **40A**, 945
 Freezing, **39B**, 395
 cold, **39A**, 125
 Fresh water, **38A**, 787; **40A**, 711
 adaptation, **38A**, 141
 crab (see also Latin name), **38A**, 769
 elasmobranch, **39B**, 415
 →media of various salinities, **38A**, 443
 ←sea water, **38A**, 443
 turtle (see also Latin name), **40B**, 931
 Frog(s) (see also Latin names), **38A**, 1;
38B, 247; **38B**, 739; **39B**, 1053;
40A, 547; **40B**, 489; **40B**, 733
 liver enzymes, **39B**, 709
 Frog(s) (*cont.*)
 metabolism, **38A**, 591
 red blood cells, **40A**, 349
 Fructose, **40A**, 305
 Fucose, **38B**, 53
 Fumarase, **38B**, 493; **39B**, 695
 Fumarate hydratase, **38B**, 43; **39B**, 695
 Function of elements, **38A**, 387
Fundulus
grandis, **39A**, 625
heroclitus, **38A**, 141; **38B**, 327
 Fungiina, **40B**, 113
 Fuzz layer, **39B**, 227
 GABA (gamma aminobutyric acid),
38B, 529; **39A**, 643; **40A**, 181
 GLC (see Gas-liquid chromatography)
 5'-GMP (Sodium 5'-guanylate), **40B**, 347
 Galactogen, **40B**, 585
 Galactosamine, **40B**, 25
 Galactose, **40A**, 649; **40B**, 25
 β-Galactosidase, **40B**, 585
Galago sp., **40B**, 359
 Gall fly (see also Latin name), **38B**, 87
Galleria mellonella, **38B**, 333
 Galliformes, **39B**, 151
Gallus
 sp., **40B**, 147
domesticus, **38B**, 239; **38B**, 285; **38B**, 411;
38B, 513; **39A**, 29; **39A**, 649; **39B**, 25;
39B, 45; **39B**, 61; **39B**, 237; **39B**, 305;
39B, 523; **39B**, 683; **39B**, 701;
39B, 833; **39B**, 919; **40A**, 61; **40A**, 229;
40A, 257; **40A**, 553; **40A**, 1029;
40B, 129; **40B**, 189; **40B**, 215;
40B, 489; **40B**, 723; **40B**, 1011;
gallus, **38B**, 53
 Gamma-aminobutyric acid (see GABA)
 Gas
 analysis, **39B**, 209
 chromatography, **39B**, 445
 liquid chromatography, **38B**, 93;
38B, 373; **38A**, 581; **39B**, 1
 liquid chromatography of sterols,
39B, 139
 secretion, **40A**, 609
 Gastric juices, **39B**, 715
 Gastrointestinal absorption, **39A**, 545
 Gastropod(a), **38B**, 689, **40B**, 37
 shell, **40B**, 1037
Gazella granti, **38B**, 353
 Gel
 diffusion, **38A**, 637

- Gel (*cont.*)
 electrophoresis, **39B**, 1023
 electrophoresis molluscan style, **38B**, 263
 filtration, **38A**, 17; **40A**, 133
- Gene
 duplication, **39B**, 195; **39B**, 455;
39B, 503
 expression, **40B**, 207
 phylogenetic trees, **39B**, 455
- Generator potential, **40A**, 761
- Genetic
 strains of mice, **39B**, 131
 variant, **39B**, 523
- Genital system, **38A**, 387
- Geographical range, **40A**, 723
- Gerbil (see also Latin name), **40B**, 93
- Gerrhonotus* sp., **39A**, 125
- Giant
 fibres, **40A**, 295
 interneuron, **40A**, 295
 scallop (see also Latin name), **38B**, 543;
39B, 163
- Gill(s), **39B**, 649; **40A**, 391; **40B**, 531
 permeability, **39A**, 367
 plates, **38A**, 751
 sampling, **38B**, 501
- Gillichthys mirabilis*, **39A**, 147
- Giraffe (*Giraffe camelopardalis*), **40B**, 489
- Gladioferens*
pectinatus, **38B**, 361
spinosus, **38B**, 361
- Globin
 digesting enzyme, **38B**, 663
 inhibition of tryptophan oxygenase,
39B, 709
- Glomeris marginata*, **39A**, 611
- Glomerular filtrate, **38A**, 787
- Glossina palpalis*, **38B**, 347
- Glucagon, **39B**, 69
 stimulation, **39A**, 723
- Gluconeogenesis, **38B**, 543; **40B**, 531
 and lipogenesis, **39B**, 237
 in biotin-deficient rats and its regulation,
38B, 285
- Gluconeogenic enzymes, **39B**, 163
- Glucorticosteroids, **40B**, 241
- Glucosamine, **40B**, 25; **40B**, 113; **40B**, 945
- Glucose, **38A**, 465; **38B**, 5; **39A**, 599;
39A, 605; **39B**, 247; **40A**, 305;
40A, 557; **40A**, 617; **40A**, 649;
40A, 987
 binding, **39B**, 617
 in *Urechis* blood, **38B**, 463
- Glucose, (*cont.*)
 metabolism, **38B**, 379; **40B**, 993
 phosphorylation, **40B**, 71; **40B**, 81
 to lactate metabolism, **39A**, 807
 uptake bioassay, **39B**, 267
- Glucose-6-phosphate dehydrogenase,
39B, 541
- β -Glucosidase, **40B**, 585
- β -Glucuronidase, **38B**, 211; **40B**, 585;
40B, 637
 in tadpole gut, **38B**, 225
- Glucuronide, **39B**, 25; **40A**, 257
- Glutamate, **38B**, 529; **39B**, 919; **39A**, 643
 decarboxylase, **38B**, 529
 dehydrogenase, **38B**, 493; **40B**, 1029
- Glutamic acid, **40B**, 1037
- Glutathione, **39A**, 743; **39A**, 553; **40A**, 19;
40B, 155
- Glycans, **39B**, 173
- Glycerides, **38B**, 179; **39B**, 247
- Glycerinated muscle, **40B**, 615
 fibres, **38A**, 733
- Glycerokinase, **39B**, 45; **39B**, 55
- Glycerol, **39B**, 247; **40B**, 657; **40B**, 945
- L-Glycerol-1-phosphate, **40B**, 973
- Glycerophospholipids, **38B**, 147
- Glyceryl ether diesters as depot lipids
39A, 683
- Glycine, **38B**, 405; **39A**, 743; **39A**, 545;
40B, 1037
 amide **39A**, 203
 transhydroxymethylase, **40B**, 593
- Glycogen, **38B**, 43; **38B**, 753; **39A**, 447;
40B, 381
 in mollusc muscle, **40A**, 55
 metabolism, **39B**, 237
 phosphorylase, **39B**, 689; **40B**, 757
 rhythms in frogs, **39A**, 465
 synthetase, **40B**, 757
- Glycogenolysis, **39A**, 447
- Glycolipids, **39B**, 725
- Glycolysis, **38B**, 5; **39B**, 747; **39B**, 765;
40B, 531; **40B**, 543
- Glycolytic enzymes, **38B**, 543
- Glyconeogenesis, **40B**, 381
- Glycopeptides, **39B**, 173
- α -Glycophosphate dehydrogenase, **40B**, 455
- Glycoprotein, **38B**, 53; **38B**, 103
 synthesis, **40B**, 327
- Glycosidases, **40B**, 807
- Glycosphingolipids, **40B**, 423
- Glyoxalate cycle, **38B**, 279; **40B**, 381
- Goby, **39A**, 147

- Goldfish (see also Latin name), **39A**, 1;
39B, 747; **40A**, 1043
 excretion, **40A**, 999
 intestine, **39A**, 357; **39A**, 209; **40A**, 431
 Gonadal hormones, **39B**, 683
 Gonadotropins, **40A**, 367
 Gonads' protein and fat, **40A**, 771
 Goose (see also Latin name), **40B**, 489
Gopherus
 sp., **39A**, 125
agassizii, **40A**, 119
Gorilla gorilla, **39B**, 659
 Granulosa cells, **40B**, 575
Graphidostreptus tumuliporus, **40B**, 1
 Grass snake (see also Latin name), **40B**, 489
 Grasshopper mice (see also Latin name),
40A, 797
 Green snake (see also Latin name), **40B**, 489
 Greenhouse effect, **40A**, 359
 Greylag goose (see also Latin name),
40A, 445
 Grizzly bear (see also Latin name), **40B**, 309
 Ground squirrel (see also Latin name),
38A, 121; **38A**, 763; **40A**, 405, **40A**, 815
 Growth, **38A**, 591; **40A**, 487; **40A**, 871
 cycle cell protein and size change, **39B**, 5
 hormone, **39B**, 55
 Guanine, **39A**, 119
 Guau turtle (*Staurotypus triporcatus*),
40B, 931
 Guinea-pig (see also Latin name), **38B**, 299;
38B, 697; **39B**, 25; **40B**, 489
 Gulf killifish (see also Latin name), **39A**, 625
Gulo luscus, **40B**, 309
 Gulp, **39A**, 147
 Gustatory response, **40A**, 833
 Gut
 fluid **38B**, 507
 homogenate, **38B**, 507
 system, **38B**, 507
 transport, **40A**, 229; **40A**, 431
Gypohierax angolensis, **39A**, 653
³H thymidine, **40A**, 487
 H₂O₂ concentration, **40B**, 139
 5HT (5-hydroxytryptamine), **38A**, 743;
39A, 859; **39B**, 435
 Haematin activation of tryptophan
 oxygenase, **39B**, 709
 Haematocrit, **38A**, 129; **39A**, 671, **39B**, 279;
40A, 965
 of ox, **39A**, 869
Haematoloechus medioplexus, **39A**, 165
 Haematology, **38A**, 497
 Haeme proteins, **39B**, 395
 Haeme-haeme interactions, **40B**, 359
 Haemin substitution, **39B**, 5
 Haemocyanin, **38A**, 317; **39A**, 735;
39B, 291; **39B**, 855; **40A**, 113;
40A, 479; **40B**, 7; **40B**, 699; **40B**, 923;
40B, 1045
 dissociation, **38A**, 461
 molecular weight, **40B**, 19
 Haemoflagellate nutrition and growth,
39B, 5
 Haemoglobin, **38A**, 53; **38A**, 699; **38B**, 119;
38B, 179; **38B**, 609; **38B**, 663;
39A, 671; **39B**, 279; **39B**, 299;
39B, 715; **40A**, 89; **40A**, 865;
40B, 359; **40B**, 521; **40B**, 567;
40B, 751
 antigenicity, **39B**, 83
 β-chain, **39B**, 797
 digestion of, **38B**, 663
 electrophoresis, **39B**, 203
 evolution, **39B**, 455
 HbA₂, **39B**, 659
 heterogeneity, **39B**, 83
 of *Myxine*, **39B**, 551
 Haemolymph, **38B**, 1; **38B**, 129; **39A**, 367;
39B, 335; **40A**, 83; **40A**, 617;
40B, 699
 glucose in snail, **39A**, 605
 proteins, **39A**, 735; **39B**, 291
 Haemolysis, **38A**, 777
Haemonchus contortus, **40B**, 833
 Hagfish (see also Latin name), **40B**, 489
 Half-life time, **40A**, 495
Haliotus rufescens, **40B**, 807
 Hamsters (see also Latin name), **38B**, 299;
39A, 437
 Haptoglobin(s), **39B**, 299
 Harp seal (see also Latin name), **40A**, 359
 Hartebeest (see also Latin name), **38A**, 525
 Hawk (see also Latin name), **39B**, 151
 Heart, **38B**, 471; **39A**, 289; **39A**, 361;
39A, 447; **39B**, 689; **40A**, 761
 activity, **38A**, 91
 beat, **40A**, 1065
 function, **39A**, 193
 muscle, **38A**, 517
 rate, **38A**, 59; **38A**, 555; **39A**, 277;
39A, 297; **39A**, 403; **40A**, 503;
40A, 689; **40A**, 881
 Heat, **38A**, 709
 balance, **38A**, 611; **40A**, 815

- Heat, (*cont.*)
 loss, **39A**, 235
 production, **39A**, 413
 relations, **40A**, 1109
 resistance, **40A**, 1109
 synchronization, **40B**, 381
 Hedgehog (see also Latin name), **40A**, 89;
40B, 489
Helisoma antrosomum, **40B**, 433
Helix
aspersa, **39B**, 879; **40B**, 223; **40B**, 395;
40B, 585
pomatia, **39A**, 267; **39A**, 289;
40A, 715; **40B**, 19; **40B**, 585
 Helminths, **39B**, 627
 metabolism, **38B**, 43
 Hematin activation of tryptophan oxy-
 genase (see Haematin . . .)
 Hematology (see Haematology)
 Heme proteins (see Haeme . . .)
 Heme-heme interactions (see Haeme-
 haeme . . .)
Hemidactylus leschenaulti, **40B**, 651
Hemigrapsus nudus, **40B**, 757
 Hemin substitution (see Haemin . . .)
 Hemoflagellate nutrition and growth (see
 Haemoflagellate . . .)
 Hemoglobin (see Haemoglobin)
 Hen (see also Latin name), **39B**, 25;
40A, 257; **40A**, 445
 diet, **40A**, 1097
 Hepatic
 glycogen, **39A**, 447; **40B**, 813
 lipogenesis, **40B**, 215
 protein synthesis, **40B**, 651
 Hepatopancreas, **38B**, 689; **39B**, 227;
40B, 199
 of snail, **38B**, 753
 Hermit crab (see also Latin name), **39A**, 665
 Heterogeneity of feather proteins, **39A**, 325
 Heterologous antiserum, **39B**, 83
 Heterolysosomes, **40B**, 263
Heterometrus swammerdami, **39B**, 499
 Heterotherm, **38B**, 247; **38B**, 739
 Heterothermy, **40A**, 809
 Hexokinase, **38B**, 5; **39B**, 607
 Hexosamine, **38B**, 53; **40B**, 25
 Hexosamine, **38B**, 53; **40B**, 25
 Hexose
 monophosphate shunt, **39B**, 873
 phosphates, **38B**, 165
 Hibernating snails (see also Latin names),
39A, 63
 Hibernation, **38A**, 59; **38A**, 239; **38A**, 469;
38A, 517; **38A**, 571; **38A**, 645;
38A, 763; **39A**, 437; **40A**, 405
 High
 Na⁺ erythrocytes, **39A**, 807
 protein, "carbohydrate-free" diet,
40A, 1029
 Hindgut, **39A**, 761
 Hinnny and zebra immunoglobulins,
38B, 439
 Histamine catabolism, **38A**, 435
 Histidine, **38B**, 87; **40A**, 649
 Histochemical studies on proteins, **40A**, 103
 Histochemistry, **39B**, 227; **40B**, 575
 Histology, **39A**, 361
 Histones, **39B**, 445
 Holocephalans, **39A**, 185
 Homarine, **39B**, 31
Homarus
americana, **39B**, 31
americanus, **38B**, 393; **38A**, 407
gammarus, **40B**, 295
 Homeostasis, **38A**, 645; **39A**, 235; **40A**, 203
 Homeotherms, **39B**, 311
Homo sapiens, **39B**, 325; **40B**, 489
 Homologous proteins, **39B**, 83
 Honey bee (see also Latin name), **38B**, 129
 Hooded seal (see also Latin name), **40B**, 579
 Hormone(s), **38B**, 739
 control of blood linoleate, **39A**, 177
 -induced blood changes, **38B**, 451
 Horse (see also Latin name), **38B**, 439,
39B, 395
 Horseshoe crab (see also Latin name),
38A, 733; **40B**, 615
 Host specificity, **40B**, 993
 House lizard (see also Latin name), **40B**, 651
 Human, **38B**, 707; **39B**, 483
 liver carboxylesterase, **40B**, 841;
 pepsin, **39B**, 715
 Humidity, **39A**, 267
 Humoral transmission, **39A**, 795
Hyal arborea savygyi, **40A**, 911
Hyalophora cecropia L., **40A**, 353
 Hybrid(s), **40B**, 521
 vigor, **38B**, 309
 Hydatid cyst, **40B**, 25; **40B**, 797
 Hydra feeding, **39A**, 553
 Hydration, **39A**, 843; **39A**, 403
 Hydrocortisone distribution space, **40A**, 459
Hydroides norvegicus, **38B**, 405
 Hydrogenation, **39B**, 823
Hydrolagus collicii, **39A**, 185

- Hydro-osmotic flow, **39A**, 203
 Hydrostatic pressures, **39A**, 289
 γ -Hydroxybutyric acid, **40B**, 321
 Hydroxymetmyoglobin's spectrum, **39B**, 395
 Hydroxyproline, **40B**, 165
 3 α -Hydroxysteroid dehydrogenase, **40B**, 575
 11 β -Hydroxytestosterone, **38A**, 329
 5-Hydroxytryptamine (serotonin) (see 5HT)
Hyla sp., **40A**, 771
Hymenolepis
 citelli, **40B**, 993
 diminuta, **39B**, 627; **39A**, 785; **40A**, 777; **40B**, 885; **40B**, 993
 Hypercapnia, **38A**, 509
 Hypercarbia, **39A**, 147
 Hyperglycaemia, **38A**, 465
 Hypertonic urine, **38A**, 37
 Hypersaline solutions, **38A**, 37
 Hypertrophy, **40A**, 1029
 Hypo-osmotic regulation, **38B**, 361
 Hypophysectomy, **39B**, 45; **39B**, 55
 and mitotic division, **39A**, 227
 Hypotension, **39A**, 307
 Hypothalamus, **40A**, 213; **40A**, 373
 Hypothermia, **40A**, 975
 Hypoxia, **39A**, 147; **39A**, 307; **40A**, 945
 Hystricomorpha, **40B**, 71

 5'-IMP, **40B**, 347
Ictalurus
 catus, **40A**, 399
 melas, **39A**, 531
 nebulosus, **40A**, 833; **40A**, 945
Iguana iguana, **40A**, 881
 Immunochemical
 cross-reaction, **40A**, 445
 enzyme assays, **39B**, 607
 relatedness of adenosine deaminases, **40B**, 1071
 remoteness, **39B**, 83
 Immunodiffusion, **38B**, 513; **40A**, 855
 Immunoglobulins, **38B**, 609
 of horse umbilical cord blood, **38B**, 439
 Immunological comparison of proteins, **38A**, 317
 Immunology, **40A**, 669
 in marine toad, **38A**, 483
 Immunophylogeny, **38B**, 609
 Immunoprecipitation or immunoprecipitin line, **39B**, 83
 Impala (see also Latin name), **38A**, 525

In vitro
 heart rates, **39A**, 495
 study, **39A**, 45
 uptake of valine and methionine, **40A**, 431
 Inderal, **38A**, 743
 Indian chicken (see also Latin name), **40B**, 147
 Indoleamines, **39A**, 875
 Indophenyl acetate substrate, **40B**, 841
 Indoxyl acetate, **39B**, 1023
 Influence of feeding habits on amylase action, **40B**, 317
 Inhibition, **38A**, 175; **39B**, 599
 Inhibitor(s), **40B**, 139
 of carbonic anhydrase, **38B**, 707
 substance, **39A**, 203
 Inhibitory mediator, **39A**, 795
 Initial velocity, **39B**, 935
 Insect(s), **38A**, 449; **38B**, 627; **39B**, 823; **40A**, 761; **40B**, 715
 biochemistry, **38B**, 109; **38B**, 333
 central nervous system, **40A**, 579
 excretion, **39A**, 761
 gonotrophic cycle, **40B**, 515
 metabolism, **40A**, 935
 metamorphosis, **38B**, 211
 microsomes, **39B**, 589
 muscle potentials, **40A**, 353
 rhythmic activity, **38A**, 213
 taste, **38A**, 265
 vision, **39A**, 457
 Insecticides, **38A**, 279
 Insulin, **39B**, 69; **40A**, 557; **40A**, 569; **40B**, 601
 comparison, **40A**, 272
 inhibitors, **40A**, 272
 Interaction, **38B**, 373
 of sugars with extracted protein, **39B**, 367
 Intercalated disks, **39A**, 333
 Intermediary metabolism, **38A**, 279; **40A**, 1087
 Intermolt cycle, **40B**, 757
 Internal receptors, **39A**, 147
 Interphylum cross-reaction, **40A**, 163
 Interpopulation variation, **38B**, 487
 Interscapular fat, **39A**, 39
 Interspecific relationship, **39B**, 195; **39B**, 503
 Intertidal regulation, **39A**, 103
 Intestinal
 absorption, **39B**, 617; **40A**, 649
 absorption of amino acids, **40A**, 229
 enzymes, **38B**, 697

- Intestinal (*cont.*)
 transport, **39B**, 357; **40A**, 431
 Intestine(s), **38A**, 603; **38B**, 507; **40A**, 203
 Intracellular
 dye injection, **40A**, 579
 electrolytes, **39B**, 208
 sodium and potassium, **38A**, 715
 Intravenous injection, **40A**, 61
 Inulin space, **39A**, 45; **40A**, 45
 Invertebrate(s), **38B**, 689
 B₁₂, **40B**, 301
 muscle(s), **38B**, 707
 trypsin, **388B**, 235
 Ion(s), **38A**, 489; **40A**, 761
 regulation, **38A**, 541; **39A**, 391; **40A**, 319;
 40A, 373
 regulation in bivalves, **38A**, 619
 transport, **39B** 649; **40A**, 39; **40A** 319
 Ionoregulation, **39A**, 625
 Iproniazid, **38A**, 435; **39A**, 859
 Iron, **38A**, 387; **40B**, 199
 in milk, **39B**, 119
 kinetics, **40A**, 517
 Isocitrate dehydrogenase, **38B**, 593
 Isoelectric focusing, **39B**, 551; **40B**, 433
 Isoenzyme(s), **38B**, 35; **38B**, 299; **39B**, 305;
 39B, 607; **40B**, 71; **40B**, 81; **40B**, 165;
 40B, 433; **40B**, 579; **40B**, 671;
 40B, 709; **40B**, 917; **40B**, 1079
 polyacrylamide gel electrophoresis,
 40B, 1029
 Isoferritins, **39B**, 325
 Isogonum alatus, **38A**, 555
 Isometric
 contraction, **40B**, 615
 muscle contraction, **38A**, 733
 Isoodon obesulus, **39B**, 203; **39B**, 209
 Isoprenoid fatty acids, **39B**, 579; **40B**, 931
 Isotope, **39B**, 445
 Isozyme(s), **39B**, 19; **39B**, 879; **40B**, 93;
 40B, 207; **40B**, 833
 subunits, **40B**, 207
 Jaguar (see also Latin name), **40B**, 489
 Japanese quail (see also Latin name),
 38A, 541; **40B**, 61
Jasus lalandi, **38A**, 465
 Java monkey (see also Latin name), **38A**, 157
 Jejunal mucosa, **38B**, 5
 Jelly fish (see also Latin name), **40A**, 855
 John's disease, **40A**, 649
Jonespeltus splendidus, **38B**, 1
 Junctional potentials, **39A**, 333
 Juvenile hormone and its effects on proteins
 (enzymes) in milkweed bugs, **40A**, 103
 K⁺ (see also Potassium), **38A**, 387;
 38B, 239
 K_i, **39B**, 695
 K_m, **39B**, 695; **39B**, 925; **40B**, 165;
 40B, 181
 K⁺ permeability, **39A**, 807
 KCl dependence, **40B**, 1011
 Kangaroo rats (see also Latin name),
 39A, 361; **39A**, 379
Katsuwonis pelamis, **38A**, 203
 α-Ketoglutarate dehydrogenase, **38B**, 493
 11-Ketotestosterone, **38A**, 329
 Kidney, **38A**, 129; **38A**, 387; **38A**, 663;
 38A, 787; **38B**, 247; **38B**, 697;
 38B, 739; **39A**, 361; **39A**, 437;
 39B, 25; **39B**, 325; **40A**, 249;
 40A, 1029; **40A**, 1055; **40B**, 841
 function, **40A**, 1029
 proximal convoluted tubules, **40A**, 405
 Killer whale (see also Latin name), **39B**, 673
 Killifish (see also Latin name), **38A**, 141
 Kinetics, **38B**, 247; **39B**, 343
 King crab (see also Latin name), **39B**, 765
Kinosternum
 leucostomum (white-lipped, mud turtle),
 40B, 931
 subrubrum subrubrum, **38A**, 53
 Krebs cycle intermediates, **39B**, 159
 LDH, **39B**, 425; **39B**, 1053; **40B**, 93;
 40B, 579
 L-Glycerol-3-phosphate, **38B**, 5
 Lack of entrainment by light, **39A**, 465
 Lactate, **40B**, 833
 D-, **40B**, 387
 L-, **38B**, 5; **40B**, 387
 dehydrogenase, **39B**, 343; **39B**, 925;
 39B, 1023; **40B**, 433; **40B**, 671;
 40B, 709; **40B**, 1029
 dehydrogenase isozymes, **38B**, 327
 secretion, **39A**, 357
 Lactic
 acid, **39A**, 699; **39A**, 447; **40A**, 945
 acid dehydrogenase, **40B**, 455; **40B**, 833
 dehydrogenase, **38B**, 43; **38B**, 299;
 39B, 159; **40B**, 481
 Lactoferrin, **39B**, 119
 Lactose, **40B**, 585
Laevicardium crassum, **40A**, 955
 Lake trout (see also Latin name), **39A**, 137

- Lama pacos*, **38B**, 353
 Large intestine, **38B**, 697
Larus ridibundus (Aves), **38A**, 743
 Larvae, **38B**, 129
 Larval development, **39B**, 1045
Lasiornis latifrons, **39B**, 203; **39B**, 209
 Lateral muscle, **39A**, 45
 Lateral-line nerve, **38A**, 279
 Laying hen, **40B**, 723
 Learning, **38B**, 529; **39B**, 423; **40B**, 223
Leipia ocellata, **39B**, 1
Leishmania tarentolae, **39B**, 5
 Lemmings (see also Latin name), **38A**, 183; **40A**, 975
Lemmus trimucronatus, **38A**, 183; **40A**, 975
 Lemur (see also Latin name), **40B**, 359
 Lens protein, **38A**, 637; **39B**, 719
 Leopard frog (see also Latin name), **38A**, 457
Lepidochelys kempi, **40B**, 931
 Lepidoptera, **38B**, 333; **40B**, 715
Lepisosteus platostomus, **38B**, 367
Lepomis
 gibbosus, **40A**, 733
 macrochirus, **40A**, 609; **40A**, 733; **40A**, 945
Leptonychotes weddelli, **38B**, 471
Leptotyphlops dulcis, **38B**, 103
 Leucine, **40B**, 223; **40A**, 987
 Light-dark
 adaptation, **39A**, 531
 régime, **38A**, 213
 Lighting régime, **38A**, 591; **40A**, 487
 Lignocaine, **40A**, 391
 Limited spingolipids/sulfatides, **38B**, 147
Limulus
 heart, **39A**, 333
 polyphemus, **38A**, 733; **38A**, 751; **40B**, 387; **40B**, 615; **40B**, 637
Linckia multifora, **40B**, 109
 Linoleate metabolism, **40A**, 1097
 Linoleic acid, **39A**, 177; **40B**, 189
 ¹⁴C-, **40A**, 1097
 α-Linolenic acid; **39B**, 247
 Lion (see also Latin name), **40B**, 489
Liopeltis vernalis, **40B**, 489
 Lipase, **39B**, 227
 in *Nereis virens*, **39A**, 683
 in starfish, **39B**, 979
 Lipid(s), **38B**, 279; **39B**, 725; **40A**, 367; **40A**, 617
 and egg-white production, **39A**, 683
 carbohydrates, **40A**, 1087
 composition, **38B**, 425
 Lipid(s), (cont.)
 in annelids, **39A**, 683
 in Rotifera, **40B**, 459
 in *Urechis* blood, **38B**, 463
 metabolism, **39B**, 247; **40B**, 657
 phosphorus, **38B**, 179
 synthesis, **39B**, 167; **40B**, 893
 Lipochrome pigment of molluscan ganglia, **40A**, 595
 Lipogenesis, **39B**, 45; **40A**, 569
 Lipogenic enzymes, **40B**, 215
 Lipolysis *in vitro*, **39B**, 69
 Lipoprotein, **38A**, 17; **39B**, 291; **39B**, 673; **40B**, 709
 — in birds, **39B**, 789
 Liquid scintillation counting, **39B**, 559
Litoria caerulea (formerly *Hyla caerulea*), **40A**, 1109
Littorina
 irrorata, **40B**, 1037
 littorea, **38B**, 635; **39B**, 579; **40B**, 249
 Liver, **38B**, 239; **38B**, 295; **38B**, 299; **38B**, 697; **39A**, 361; **39A**, 437; **39A**, 447; **39B**, 25; **39B**, 325; **39B**, 377; **39B**, 445; **39B**, 483; **39B**, 701; **40A**, 61; **40A**, 517; **40A**, 945; **40A**, 1029; **40B**, 189; **40B**, 241; **40B**, 301; **40B**, 841
 activity, **40B**, 819
 esterase, **38B**, 487; **39B**, 483
 glucokinase, **40B**, 71; **40B**, 81
 glycogen, **39B**, 237
 glycogen metabolism, **39B**, 833
 hexokinase(s), **40B**, 71; **40B**, 81
 weight, **39B**, 833
 Lizard kidney slices, **40A**, 467
 Lobster (see also Latin name), **38A**, 465; **39A**, 643; **40B**, 295
 Local control, **39A**, 505
 Locomotion, **40A**, 925
 in earthworm, **40A**, 859
 Locust(s) (see also Latin name), **40A**, 579
Locusta migratoria, **38A**, 715
Lonchura striata var. *domestica*, **39B**, 151
 Long period rhythms, **39A**, 465
Lophortyx californicus (Aves), **39A**, 75
 gambelli (Aves), **39A**, 75
 Low temperature acclimation, **39A**, 625
 Luciferase, **40A**, 163
 Luciferin, **40A**, 163
Lucilia sericata, **39B**, 823
Lumbricus terrestris, **40B**, 395; **40A**, 859
 Lungs, **39A**, 361

- Lutein, **49B**, 47
- Lymnaea*
stagnalis, **38A**, 309; **38A**, 387; **40A**, 595
truncatula, **40A**, 617
- Lynx (see also Latin name), **40B**, 489
- Lynx lynx*, **40B**, 489
- Lysine, **39A**, 29
- Lysophosphatides, **39B**, 183
- Lysosomes, **38B**, 211; **38B**, 651
- MDH, **40B**, 93
- Mn, **38A**, 387
- mRNA, **39B**, 559
- MS 222, **40A**, 391
- Macaca*
irus, **38A**, 157
mulatta, **39B**, 639; **40A**, 635; **40B**, 543
speciosa, **39B**, 639
- Macroglobulin α_2 , **40B**, 439
in birds, **39B**, 789
- Macropus puber*, **40A**, 479
- Macropus eugenii*, **38A**, 705; **39A**, 473;
39B, 203; **39B**, 209
- Magnesium, **38A**, 387; **38A**, 541; **38A**, 733
and calcium in migratory salmon, **38A**, 99
- Magpie goose (see also Latin name),
40A, 445
- Malaria, **38B**, 425; **40A**, 543; **40B**, 657
- Malarial
parasite, **39B**, 913
ribosomes, **39B**, 897
- Malate dehydrogenase, **38B**, 35; **38B**, 43;
38B, 493; **39B**, 1045; **40B**, 1079
- Male accessory glands, **40A**, 305
- Malic
dehydrogenase, **40B**, 917
enzyme, **39B**, 55
- Mallee fowl (see also Latin name), **39B**, 1
- Malonamide, **38A**, 777
- Malonate, **39B**, 425
- Mammal(s), **38A**, 723
milk, **38B**, 353
- Mammalian adipose tissue lipolysis, **39B**, 69
- Man (see also Latin name), **38B**, 697
- Manduca sexta*, **40A**, 871
- Manganese, **38A**, 387
ions, **40B**, 819
- Mannitol, **39B**, 617
space, **40A**, 45
- Mannose toxicity, **38B**, 141
- Mantle cavity, **39A**, 421
- Marine, **39B**, 815
environment, **40A**, 203
- Marine, (cont.)
mammal(s) (see also Latin name),
40B, 423; **40B**, 683
turtle (see also Latin name), **40B**, 931
- Marking cells, **40A**, 579
- Marsupial(s), **38A**, 705; **39B**, 209
- Marsupialia, **39B**, 219
- Mass spectrometry, **38A**, 581
- Mass-cultures, **40B**, 381
- Maternal isoimmunization, **39B**, 455
- Matrix, **40B**, 133
- Maturity, **40B**, 189,
- Mechanical pressure, **39A**, 795
- Mechanoreceptor organ, **40A**, 339
- Medulla oblongata, **40A**, 415; **40A**, 1043
- Megachile rotundata*, **38A**, 213
- Megaptera novaeangliae*, **39B**, 299
- Melanin-dispersing hormone, **38A**, 17
- Melanophore(s), **38A**, 17; **39A**, 531
- Melanopsis trifasciata*, **40A**, 899; **40A**, 1015
- Melatonin, **39A**, 879
- Melleagris gallapavo*, **38B**, 513; **40A**, 425;
40B, 313
gallapavo, **40B**, 489
- Melopsittacus undulatus*, **38A**, 91; **39B**, 151;
39A, 173; **38A**, 777; **40A**, 715;
40B, 543
potential, **40A**, 761
potential and spike configuration
38A, 301
- p-mercuribenzoate inhibition, **39A**, 383
- Meretrix meretrix*, **38A**, 147
lusoria, **40B**, 347
- Meriones unguiculatus*, **38B**, 353; **40B**, 93
- Mesocricetus auratus*, **38A**, 299; **39B**, 919;
40B, 71; **40B**, 81
hibernation, **39A**, 437
- Mesomphix vulgatus*, **38A**, 663
- Metabolic adaptations(s), **40B**, 973
collaboration, **40B**, 481
control, **38A**, 723
functions, **39B**, 31
organization, **38A**, 723
- Metabolism, **38A**, 59; **38A**, 351; **38A**, 509;
38B, 247; **38B**, 373; **38B**, 739; **39A**, 1;
39A, 413; **40A**, 613; **40A**, 659;
40A, 681; **40A**, 815; **40B**, 907
of fats, **39A**, 177
of hens, **40A**, 1097
- Metabolite levels, **39B**, 765
- Metal
-catalyzed oxidation, **39B**, 395
chelation, **39B**, 119

- Metal (*cont.*)
inhibition, **38B**, 651
Metamorphosis, **38A**, 457; **39B**, 445;
40B, 733
Metapenaeus bennettiae, **39B**, 31
Methemoglobin, **40A**, 743
Methylation, **38A**, 435
24-Methylcholesterol, **39B**, 815
Methyltestosterone, **38B**, 451
Metmyoglobin's ionization, **39B**, 395
Mexican
ridley, **40B**, 931
river turtle (see also Latin name),
40B, 931
Mice (see Mouse),
Michaelis constant(s), **39B**, 715
Microcomplement fixation, **40A**, 669
Micropolarography, **39A**, 649
Microsomal activation of tryptophan
oxygenase, **39B**, 709
Microsomes, **38A**, 285; **38A**, 369; **39B**, 589;
39B, 599
Microtus
agrestis, **40A**, 305
oeconomus, **40B**, 601
Migration, **38A**, 787; **40A**, 127
Milk, **38B**, 353; **39B**, 119; **40A**, 367
fatty acids, **38B**, 353
Milkweed bugs, **40A**, 103
Millipede (see also Latin name), **38B**, 1;
38A, 351; **40B**, 1
and centipedes, **39A**, 611
biochemistry, **38B**, 723
Mineral, **38B**, 247; **38B**, 739
Miniature pig, **39B**, 725
Mirounga augustirostris, **38B**, 353; **40A**, 893
Mitochondria, **38A**, 369; **38A**, 603;
38A, 715; **38B**, 43; **38B**, 309; **38B**, 635;
39B, 919; **40B**, 249; **40B**, 395
Mitochondrial
activation of tryptophan oxygenase,
39B, 709
anaerobic phosphorylation, **39B**, 627
dismutation of malate, **39B**, 627
Mitosis, **39A**, 227
Mode of action of carbon dioxide, **38A**, 509
Modification in molecular organization of
xanthine dehydrogenase, **39B**, 569
Modiolus sp., **38A**, 619; **39A**, 103
Mole (see also Latin name), **40A**, 89
Molecular
probes, **40B**, 1011
shape, **40B**, 1045
Molecular (*cont.*)
species, **39B**, 195; **39B**, 503
taxonomy, **39B**, 19
weights, **39B**, 775; **40B**, 563
Mollusc(a), **38A**, 387; **38A**, 619; **38A**, 663;
38B, 707; **39B**, 579; **40B**, 199;
40B, 1045
clam (see also Latin name), **40B**, 347
kidney, **38A**, 309
muscles, **40A**, 55
osmoregulation, **40A**, 899
Molluscan
crystalline style, **38B**, 263
enzymes, **39B**, 383
ganglia, **40A**, 595
heart, **38A**, 555
Mollusk (clam) (see Mollusc(a))
Monkey
(Aotus), **40B**, 489
(Patas), **40B**, 489
(Rhesus), **40B**, 489
Monoiodoacetate, **39A**, 807
Monomers and polymers, **39B**, 913
Monotreme(s), **39B**, 203
kidney, **40A**, 249
Morphological changes during hemin,
deprivation, **39B**, 5
Mortality, **39A**, 709
Mosquito (see also Latin name), **38B**, 627
metabolism, **38B**, 141
Moult-cycle and haemocyanin, **39A**, 735
Moulting, **40A**, 155; **40B**, 121
cycle, **40B**, 341
Mouse (mice) (see also Latin name),
38B, 299, **38B**, 697; **40A**, 649;
40B, 489
heart, **39B**, 775
steroids, **39B**, 131
Mucaca fuscata, **39B**, 367
Mucopolysaccharides, **40B**, 25
Mucosa, **40A**, 203
Mucosal epithelium, **38B**, 697
Mugil cephalus, **38B**, 451; **40B**, 181;
40B, 959
Mule (see also Latin name), **38B**, 439
Mullet (see also Latin name), **40B**, 959
haematocrit changes, **38B**, 451
Multilocular cells of adipose tissue, **39A**, 39
Multiple haemoglobin, **39B**, 195; **39B**, 503
Murex trunculus, **40B**, 7; **40B**, 19
Musca
autumnalis, **38A**, 509
domestica, **39B**, 589; **39B**, 599

- Muscle(s), **40B**, 841
 amino acids, **40A**, 127
 and liver lipids, **39A**, 709
 electrical activity, **38A**, 59
 membrane potential, **40A**, 181
 membrane resistance, **40A**, 265
 mitochondria, **40B**, 601
 movement, **40A**, 385
 potentials, **40A**, 385
 proteins, **38A**, 147
 reducing agents, **39B**, 395
 relaxation, **38A**, 369; **40B**, 623
 temperature, **38A**, 203
 tension, **38A**, 339
 vesicle fractions, **38A**, 715
- Musk-ox (see also Latin name), **39A**, 869
- Mus musculus*, **38B**, 299; **38B**, 697; **39A**, 53;
39A, 599; **39B**, 119; **39B**, 131;
40A, 305; **40A**, 367; **40B**, 71; **40B**, 81;
40B, 489; **40B**, 601
- Mutation distances, **39B**, 455
- Mya arenaria*, **39A**, 633
- Mycobacterium johnei*, **40A**, 649
- Myocardium, **40A**, 761
- Myofibrils, **40A**, 715
- Myogenic, **39A**, 333; **40A**, 761
- Myometrium, **38A**, 285; **38A**, 369
- Myomorphs, **40B**, 71; **40B**, 81
- Myoprocta pratti*, **38B**, 353
- Myotis*
lucifugus, **38A**, 129; **38B**, 363; **39A**, 413;
39A, 549
nigricans, **38A**, 129
thysanodes, **38B**, 353; **39A**, 549
- Myriapoda, **38B**, 723; **39A**, 611
- Mytilus edulis*, **40A**, 955; **40A**, 1065
- Myxine glutinosa*, **40B**, 489
- N
 -acetyl-glutamate, **40B**, 395
 -bromosuccinimide, **39B**, 855
- N^+ potential skin of frog, **38A**, 687
- Na, **38A**, 387
 absorption, **38A**, 309
- $Na_2^{14}CO_3$, **40B**, 945
- Na-K ATPase, **38A**, 443; **39A**, 209;
39B, 1005
- NaCN, **38A**, 407
- NAD, **39B**, 1045
- NADH, **40B**, 973
- NADP, **39B**, 1045
 -IDH, **40B**, 207
 -malic enzyme, **39B**, 45; **39B**, 55
- NADPH-oxidation, **39B**, 589; **39B**, 599
- Nanophyetus salmonicola*, **40B**, 335
- Naphthyl acetate
 1-, **39B**, 483
 α -, **39B**, 1023
- α -Naphthyl butyrate, **39B**, 1023
- Narrow-snouted slider (see also Latin name),
40B, 931
- Nasal
 gland, **40A**, 203
 mucous membrane, **40A**, 971
 septum, **40A**, 971
- Nassarius*
obsoletus, **39A**, 421; **40B**, 1037
trivittatus, **39A**, 421
- Nasua nasua*, **38B**, 353
- Natica cataena*, **39B**, 139
- Natrix*
 sp., **40A**, 669
natrix, **40B**, 489
piscator, **40B**, 489
- Natural
 antibodies, **38B**, 523
 selection, **39B**, 455
- Necrosis, **39A**, 361
- Negaprion brevirostris*, **40A**, 145
- Nematode(s), **38B**, 279; **39B**, 627; **40B**, 121;
40B, 503
- Neonatal
 pigs, **39B**, 873
 rat, **38A**, 603
 rat liver, **39A**, 723
- Neonate chick, **40A**, 553
- Neonates, **39B**, 873
- Neotoma albigula*, **38B**, 353
- Neotony, **40B**, 751
- Nereis*
brandti, **38B**, 235; **40B**, 407
virens, **39A**, 683; **40B**, 871
- Nerve
 cell body(ies), **38A**, 407; **40A**, 579
 physiology, **40A**, 715
 potential, **40A**, 71
- Nervous
 regulation, **39A**, 795
 system, **38B**, 529; **40B**, 223
- Neural
 control of muscles, **40A**, 1
 retina cells uptake, **39A**, 649
- Neuroanatomy, **40A**, 579
- Neurogenic, **39A**, 333
- Neurohypophysial hormone, **40A**, 911
- Neurohypophysis, **40A**, 373

- Neuromuscular, **40A**, 1
 Neurophysiology of fish, **40A**, 733
 Neurosecretion, **38A**, 17; **40B**, 871
 Neutral
 gene, **39B**, 343
 lipids, **40B**, 893
 mutations, **39B**, 455; **40A**, 669
 Neutron activation, **38A**, 387
 analysis, **38A**, 309
 New World monkey(s), **39B**, 659
 haemoglobins, **39B**, 797
 Nicotinic acid, **39B**, 69
Nippostrongylus brasiliensis, **40B**, 121
 Nitrate on muscle permeability, **40A**, 265
 Nitrogen, **38B**, 373; **39A**, 611; **40B**, 699
 balance, **39A**, 657
 excretion, **38A**, 163; **38A**, 359; **38A**, 663;
 40A, 627; **40B**, 503
 metabolism during development,
 38A, 163
 status, **38A**, 359
p-Nitrophenyl phosphatase, **39A**, 583
 Nitroelism, **40B**, 781
 Non-electrolyte permeability, **38A**, 473
 Non-essential amino acids, **38B**, 537
 Non-formalin-resistant acid phosphatase,
 39B, 219
 Non-ketonic metabolites, **40A**, 61
 Non-protein
 nitrogen, **38A**, 645
 nitrogenous constituents, **38B**, 537
 Non-specific esterase, **38B**, 35; **38B**, 263
 Non-synchronization of rhythms by light,
 39A, 219
 Noradrenaline, **38A**, 743; **40B**, 813
 Normothermy, **38A**, 763
 Northern elephant seal (see also Latin
 name), **40A**, 893
 Norwegian sheep (see also Latin name),
 40B, 579
Notopterus notopterus, **39B**, 89
 Nuclear potential, **39A**, 521
 Nuclease, **40B**, 1057
 Nucleic acid synthesis, **40A**, 77
 Nucleotide, **40B**, 347
 Nucleus angularis, **40A**, 415
 Nutrient metabolism of molluscs, **40A**, 627
 Nutritional state, **38A**, 265

 O₂ (see Oxygen)
 O-sulphates, **40A**, 61
 Octapeptide hormone, **38B**, 269
Octocoleus hemonius, **38B**, 353

Octodon degus, **40B**, 71; **40B**, 81
Octopus vulgaris, **40B**, 199
 Ocular oxygen concentrations, **39A**, 137
Oesophagostomum radiatum, **40B**, 833
 Oestradiol, **39A**, 177
 Oestrogen(s), **39B**, 25; **40A**, 25; **40B**, 189
 Oestrone, **39B**, 25; **40A**, 257; **40B**, 1005
Okapia johnstoni, **38B**, 353
 Oleic acid, **39B**, 183; **39A**, 545
 Olfaction, **40A**, 399; **40A**, 971
 Olfactory glands, **40A**, 971
 Ommatins, **39B**, 739
Oncomelania
 sp., **38B**, 263
 formosana, **38B**, 263
 nosophora, **38B**, 263
Oncomelania fasciatus, **40A**, 103
Oncorhynchus
 sp., **39B**, 891
 gorbuscha, **38A**, 497; **39A**, 709; **40A**, 743
 kisutch, **38B**, 501; **38A**, 787; **40B**, 241
 nerka, **40B**, 819
 tshawytscha, **38A**, 99; **40B**, 241
 One-humped camel (see also Latin name),
 39A, 403
Onychomys torridus, **40A**, 797
 Oocytes, **40B**, 515
 Opercular rates, **39A**, 147
 Operculum, **40B**, 37
 Ophthalmic pathology, **39A**, 137
 Opisthosomal ganglia, **38A**, 751
Opsanus tau, **39B**, 409
 Optical
 microscopy of blood cells, **40**, 89
 rotatory dispersion, **39B**, 523
 Optimum pH, **39B**, 935
Orcinus orca, **39B**, 673
Orconectes
 sp., **39B**, 945
 obscurus, **39B**, 559; **40B**, 341
 rusticus, **40B**, 863
 virilis, **40A**, 181
 Organ
 specificity of enzymes, **39B**, 305
 weights, **39A**, 671
 Organic acid(s), **38B**, 179
 transport, **40A**, 467
 Organophosphorus cholinesterase inhibitors
 and protein synthesis in nerve, **38B**, 393
 Ornithine, **39A**, 29
 cycle, **38A**, 565; **40B**, 863
 urea cycle, **38A**, 163; **39B**, 409; **39B**, 415;
 40B, 503

- Orycteropus afer*, **38B**, 353
Oryctolagus cuniculus, **38B**, 299; **38B**, 439;
38B, 697; **39A**, 599; **39B**, 25; **39B**, 69;
39B, 119; **39B**, 305; **39B**, 325;
39B, 489; **39B**, 701; **40A**, 45; **40A**, 107;
40A, 257; **40A**, 751; **40B**, 439
dom., **40B**, 489
Osmolality, **39A**, 875;
Osmolarity of mullet plasma, **38B**, 451
Osmoregulation, **38A**, 141; **38A**, 443;
38A, 787; **39A**, 165; **39A**, 625; **39B**, 31;
39B, 415; **39B**, 649; **40A**, 155;
40A, 373; **40A**, 899; **40A**, 1015;
40B, 823
in fish, **40A**, 711
in holocephalan, **39A**, 185
in shrimps, **39A**, 483
Osmosis, **38A**, 619
Osmotic
acclimation, **40A**, 711
and ionic regulation, **38A**, 769
effect on NH_3N production, **39A**, 633
pressure, **40A**, 83
regulation, **38B**, 361; **40A**, 319
Ostracod crustacea, **40A**, 163
Otala lactea, **40B**, 395
Ouabain, **38A**, 407; **39A**, 209, **39A**, 699;
39A, 807; **39B**, 955; **40A**, 751;
40B, 823
Ovalbumins, **38B**, 513; **40A**, 445
Ovaries, **39A**, 361; **40B**, 53; **40B**, 575
Ovibos moschatus, **39A**, 869
Oviduct enzymes, **39B**, 683
Ovis
aries, **38B**, 5; **39B**, 119; **40A**, 805;
40B, 489; **40B**, 579
canadensis, **38B**, 353; **40B**, 567
dalli, **40B**, 567
limmaeus, **40B**, 521
musimon, **40B**, 567
Ovoglobulin, **40B**, 147
Ovotransferrin, **38B**, 447
Oxidation, **39B**, 919
 β - **38B**, 279
level, **39B**, 195; **39B**, 503
Oxidative phosphorylation, **38B**, 21;
38B, 309
3-Oxosteroids, **38B**, 315
Oxygen, **40B**, 165
affinity, **40A**, 865
and acute CO_2 levels, **38A**, 509
binding, **39B**, 855
binding by egg haemocyanin, **38A**, 317
Oxygen, (cont.)
binding gHb, **40B**, 359
capacity, **40A**, 865
carriage, **38A**, 461
consumption, **38A**, 1; **38A**, 213; **38A**, 351;
38A, 611; **39A**, 1; **39A**, 63; **39A**, 147;
39A, 165; **39A**, 403; **39A**, 671;
39B, 599; **40A**, 391; **40A**, 603;
40A, 627; **40A**, 681; **40A**, 723;
40A, 797; **40A**, 935; **40A**, 1065;
40B, 973
consumption in birds, **38A**, 743
consumption of lamellibranchs, **40A**, 955
consumption of reptiles, **39A**, 495
consumption of snail, **39A**, 421
countercurrent diffusion multiplier,
39A, 137
debt, **40A**, 1065
deficiency, **40A**, 89
demand, **39A**, 147
dissociation characteristics, **40A**, 89
dissociation curve, **38A**, 699; **40A**, 865
permeability, **39A**, 119
requirement, **39A**, 649
tension, **40A**, 955; **40A**, 1065
transport, **40A**, 865
uptake, **38A**, 603; **39A**, 649
Oxygenation, **40A**, 865; **40B**, 1045
Oxytocin, **38A**, 285; **38A**, 687; **38B**, 269;
40A, 1055
Oxytreme silicula, **40B**, 335
Oyster (see also Latin name), **39B**, 579
P₅₀, **38A**, 699
PAH (*p*-aminohippurate) transport, **38A**, 787
PEP-carboxylase, **38B**, 73
pH, **39B**, 747; **39B**, 925; **40A**, 83
effect on sucrose response, **39B**, 367
in gut fluid (*Echiurus*), **38B**, 507
pO₂, **39A**, 421
³²P-orthophosphate, **40B**, 543
Pacemaker, **40A**, 761
Pacific salmon (see also Latin name),
39B, 195; **39B**, 503; **39B**, 891
Paddlefish (see also Latin name), **38B**, 523
Pagophilus groenlandicus, **38B**, 523;
40A, 359; **40B**, 683
Palmitic acids, **39B**, 183
Palythoa sp., **40A**, 19
Pan troglodytes, **39B**, 639; **39B**, 659
Panagrellus redivivus, **38B**, 279
Pancreatic enzymes, **38B**, 697

- Panthera*
 leo, **40B**, 489
 onca, **40B**, 489
 tigris, **38B**, 353
 Panting, **40A**, 549
Panulirus japonica, **38B**, 597
 Paper electrophoresis, **38B**, 53
 Parachlorophenylalanine, **38A**, 239
Paralichthys lethostigma, **39A**, 391
Paralithodes camtschatica, **39B**, 765
 Paraoxon and protein synthesis in nerve,
38B, 393
Parapriacanthus
 dispar, **40A**, 163
 ransoneti, **40A**, 163
 Parasite infection, **39A**, 147
 Parasitism, **40B**, 109
 Parasitology, **39B**, 1017
 Parathormone, **38B**, 739
 Parathyroid, **38B**, 739
 Paratuberculosis, **40A**, 649
 Parr, **40A**, 127
Parus major, **40B**, 813
Passer
 domesticus, **40B**, 317
 montanus, **39B**, 151
 Pasteur effect, **38B**, 43
Pelobates syriacus, **40A**, 911
Pelomyxa carolinensis, **38A**, 477
 Pemoline, **40B**, 223
Penaeus
 duorarum, **39A**, 483; **40A**, 155
 japonicus, **38B**, 597; **39B**, 815
 Pentose
 cycle, **39A**, 599
 phosphate pathway, **39B**, 873; **40B**, 531
 Pepsin, **40B**, 465
 Peptide(s), **39B**, 523
 Peracarida, **39A**, 735
Perameles gunnii, **39B**, 203; **39B**, 209
 Perch, **39B**, 285
 Perfusion ratio, **40A**, 1065
 Pericardium, **39A**, 289
 Periodate-permanganate, **39B**, 823
 Periostracum, **40B**, 37
 Peripheral
 activity, **38A**, 265
 inhibition, **40A**, 1
Periplaneta americana, **38A**, 449; **38B**, 529;
39B, 423; **40A**, 295; **40A**, 579;
40A, 761; **40A**, 1009; **40B**, 455
 Peristalsis, **39A**, 785
 Periwinkles, **39B**, 579
 Permeability, **38A**, 777; **39A**, 119; **39A**, 583;
40A, 319
 of CO₂, **39A**, 119
 of O₂, **39A**, 119
Perodicticus sp., **40B**, 359
Peromyscus
 sp., **39B**, 19
 californicus, **38B**, 353
 crinitus, **38A**, 37; **38B**, 353
 eremicus, **38B**, 353
 floridanus, **38B**, 353
 leucopus, **38B**, 353
 maniculatus, **40A**, 971
 maniculatus bairdii, **38B**, 353
 maniculatus gracilis, **38B**, 355
 melanophrys, **38B**, 353
 polionotus, **38B**, 353
 Peroxidase, **38B**, 263; **40B**, 139
 Peroxisomes, **40B**, 381
 Persistent rhythm, **40A**, 925
 Peruvian penguin, **40A**, 689
 Pesticide, **38B**, 373
Petrochirus diogenes, **39A**, 665
Phasianus
 colchicus, **40A**, 425
 soemmeringii, **39B**, 151
 Pheasant (see also Latin name), **39B**, 151;
40A, 425; **40A**, 445
 Phenoloxidase activity, **39B**, 935
 Phenotypes, **39B**, 285
 Phenotypic enzymes, **39B**, 891
 Phentolamine, **39A**, 45
 Phenylalanine, **39A**, 545; **40B**, 1037
Phloeomys cumingi, **38B**, 353
 Phlorizin, **39B**, 617
Phoca vitulina, **39A**, 807; **40B**, 423
Phormia regina, **38A**, 265
 Phosphatases, **38B**, 247; **38B**, 739
 Phosphatidic acid, **40B**, 543
 Phosphatidylcholine, **39B**, 183; **40B**, 423;
40B, 543
 Phosphatidyl
 ethanolamine, **39B**, 183; **40B**, 423;
40B, 543
 inositol, **39B**, 183; **40B**, 423
 inositol turnover, **40B**, 871
 serine, **39B**, 183; **40B**, 423
 Phosphoenolpyruvate carboxykinase,
38B, 43
 Phosphofructokinase, **39B**, 747; **39B**, 765;
39B, 775
 Phosphoglucomutase, **39B**, 285

- Phospholine and protein synthesis in nerve, **38B**, 393
- Phospholipid(s), **38B**, 109; **39B**, 183; **39B**, 247; **40B**, 423; **40B**, 601; **40B**, 871; **40B**, 893
- Phosphorus eutrophication, **40B**, 907
- Phosphorylation, **39B**, 627
- Photoperiod, **40A**, 213; **40A**, 603
- Photoperiodicity, **40A**, 459
- Photoregulation of genetic expression, **38B**, 327
- Photosynthesis, **38A**, 233
- Phragmatopoma*
lapidosa, **38B**, 405
moerchi, **38B**, 405
- Phylogenetic relationships, **39B**, 83
- Phylogeny, **38B**, 513; **38B**, 609
 of malarial parasites, **39B**, 897
- Physalia physalis*, **39B**, 739
- Physeter catodon*, **39B**, 299; **39B**, 395
- Physical properties, **39B**, 523; **40B**, 295
- Physiological saline, **40A**, 617
- Physiology, **39A**, 45, **40A**, 213
 of cephalopods, **40B**, 923
- Physostigmine and protein synthesis in nerve, **38B**, 393
- Pieris brassicae*, **40B**, 715
- Pig (see also Latin name), **38B**, 299; **40A**, 557; **40A**, 569; **40A**, 975; **40B**, 489; **40B**, 575
- Pigeons (see also Latin name), **39A**, 173; **40A**, 415; **40A**, 425; **40A**, 549; **40B**, 489
- Pigment(s), **39B**, 1039
 of *Bombyx*, **39B**, 317
- Pila*
leopoldvillensis, **40B**, 19; **40B**, 1045
virens, **40B**, 1037
- Pineal gland, **40B**, 723
- Pipecolic acid, **39A**, 553
- Pituitary, **38A**, 183
 adrenal, **40A**, 979
 and rhythms, **39A**, 227
- Pituophis catenifer affinis*, **40A**, 865
- Placentas, **39B**, 455
- Placopecten magellanicus*, **38A**, 581; **38B**, 543; **39B**, 163
- Plaice (see also Latin name), **40A**, 391; **40B**, 489
 liver enzyme, **40B**, 1057
- Plankton, **40B**, 275
- Plants, **39B**, 607
- Plasma, **38B**, 53; **38B**, 247; **38B**, 739; **40A**, 61; **40B**, 423
 albumin, **40B**, 733
 amino acids, **39B**, 639
 electrolytes, **39A**, 473
 hydrocortisone, **40A**, 495
 inhibition, **39B**, 267
 inhibitors, **40A**, 273
 proteins, **38A**, 497
 thyroxine, **40A**, 789
- Plasmodium(ia), **38B**, 73; **38B**, 425
- Plasmodium*
berghei, **38B**, 73
knowlesi, **38B**, 425; **39B**, 897; **39B**, 913; **40B**, 543; **40B**, 657; **40B**, 893
lophurae, **40A**, 543
- Plateau
 potential, **40A**, 761
 type repolarization phase, **38A**, 251
- Platelets, **40A**, 89; **40B**, 481
- Pleiotropy and fatty acids, **39B**, 569
- Pleuroloma flavipes butleri*, **38B**, 723
- Pleuronectes*
flesus, **38A**, 715
platessa, **40A**, 391; **40B**, 489
- Plumage, **38A**, 611
- Pocillopora damicornis*, **40B**, 945
- Poecilia*, **40A**, 851
- Poikilotherms, **39B**, 311
- Polar bear (see also Latin name), **40B**, 309
- Polinices duplicatus*, **40B**, 1037
- Polyacrylamide disc electrophoresis, **38B**, 487
 gel electrophoresis, **38A**, 317; **40B**, 433; **40B**, 709; **40B**, 1029
- Polychaete(s), **40B**, 407
 lipids, **39A**, 683
 trypsin, **38B**, 235
 worm tubes, **38B**, 405
- Polydisperse polyglucose, **40B**, 381
- Polygenic regulation-hyperuricemia, **39B**, 569
- Polyglucose-RNA interaction, **40B**, 381
- Polyglyceryl phosphatide, **39B**, 183
- Polymeric adenosine deaminase, **40B**, 1071
- Polymorphism, **40B**, 147; **40B**, 563
- Polyodon spathula*, **38B**, 523
- Polyp, **40A**, 855
- Polypeptide(s), **38B**, 119
 α - and β -polypeptide chain, **39B**, 195
- Polysaccharide-protein complex, **40B**, 25
- Polyethylene oxide, **39A**, 147
- Pongo pygmaeus*, **39B**, 659

- Population dynamics, **38A**, 183
 Porcelionidae, **39A**, 735
Porcellio laevis, **39A**, 735
 Porcine pepsin, **39B**, 715
 Porcupine, **40B**, 489
 Pork, **39B**, 483
Porichthys notatus, **40A**, 163
 Porphyrin metabolism, **39B**, 5
Porpita sp., **39B**, 1039
Portunus
 holsatus, **38A**, 317
 trituberculatus, **38B**, 597
 Positional and geometric isomers, **39B**, 823
 Possible osmolality variations in proximal colon, **40A**, 823
 Posterior adductor muscle, **38A**, 339
 Post-natal
 development, **39B**, 377
 synthesis, **40A**, 135
Potamon edulis, **38A**, 769
Potamotrygon sp., **39B**, 415
 Potassium, **38A**, 99; **38A**, 251; **38A**, 387;
 38A, 541; **38B**, 553; **40A**, 543
 and glucose, **40A**, 405
 and urate transport, **40A**, 467
 concentration, **40A**, 761
 inactivation, **40A**, 715
 ions, **39A**, 437
 transport, **39A**, 367
 Potential difference, **38A**, 489
Potorous tridactylus, **39B**, 203; **39B**, 209
 Precipitin reactions, **38B**, 513
 Preen gland(s), **39B**, 1
 of birds, **39B**, 151
 Pregnanediols, **40A**, 61
 Pregnanetriol, **40A**, 61
 Preoptic
 anterior hypothalamus, **40A**, 809
 area of brain, **40A**, 733
 heating, **40A**, 815
 Primary structure, **39B**, 523
 Primates, **38A**, 157; **39B**, 455; **39B**, 639
 coagulation systems, **38A**, 157
 haemoglobins, **39B**, 797; **40B**, 359
Procambarus clarkii, **39B**, 227; **40A**, 181
 Procion
 dye, **40A**, 579
 yellow, **40A**, 295
 Progesterone, **38A**, 763
 [4-¹⁴C]-, **40A**, 61
 Prolactin, **40A**, 459
 Proline, **39A**, 553; **40A**, 19; **40B**, 121
 Propionic acid, **38B**, 379
 Propranolol, **39A**, 45; **40B**, 813
 Propylthiouracil, **39B**, 833
 Prostatic acid phosphatase, **39B**, 219
 Proteases, **40B**, 633
 in starfish, **39B**, 979
 Protein(s), **38B**, 53; **38B**, 129; **38B**, 373;
 38B, 609; **39B**, 61; **39B**, 335;
 39B, 499; **39B**, 855; **40A**, 669;
 40A, 899; **40A**, 1087; **40B**, 699;
 40B, 709; **40B**, 1029
 binding vitamins, **38B**, 467
 biosynthesis, **38B**, 239
 chains, **38B**, 119
 characterization, **39B**, 523
 from feathers, **39A**, 325
 in blood, **40B**, 515
 in body, **40A**, 771
 metabolism, **38A**, 713
 metabolism in insects, **38B**, 347
 polymorphism, **38B**, 447; **39B**, 19
 structure, **39B**, 523
 synthesis, **40A**, 777; **40B**, 121; **40B**, 223;
 40B, 327; **40B**, 855; **40B**, 885
 synthesis by malarial parasites, **39B**, 897
 synthesis in lobster walking leg nerves,
 38B, 393
 synthesis in peripheral nerves, **38B**, 393
Protemnodon eugenii, **38A**, 359
 Proteoglycans, **40B**, 283
 Proteolipid proteins, **39B**, 725
 Proteolytic enzymes, **38B**, 197; **38B**, 507
 Protocollagen promine hydroxylase,
 40B, 165
 Protonephridial fluid, **39A**, 785; **40A**, 453
 Protoporphyrin
 activation of enzymes, **39B**, 709
 IX and cytochrome c inhibition of growth,
 39B, 5
 Protozoan feeding, **39A**, 553
 Proximal
 and distal colon, **40A**, 39
 convoluted tubules, **40A**, 405
Psammomys obesus, **38B**, 119
Pseudacris sp., **40A**, 771
Pseudemys
 sp., **39A**, 125
 scripta, **40A**, 925; **40B**, 931
 scripta elegans, **38A**, 53; **39B**, 689;
 40B, 741
Pseudophryne corroborae, **38A**, 163
Pseudopleuronectes herzensteini, **40B**, 1057
 Pseudoscorpion, **40B**, 475
Ptyas mucosus, **40B**, 489

- Pulmocutaneous water loss, **39A**, 671;
40A, 797
- Pulmonate
 land snails, **38A**, 663
 snails, **38A**, 565
- Puparium, **38B**, 211
- Pupation, **39A**, 521
- Pup-Tp bonds, **40B**, 1057
- Purine(s), **38A**, 663
 catabolism, **40B**, 863
- Puromycin, **40A**, 1015; **40B**, 855
- Pyrimidines and purines, **38B**, 179
- Pyrrole, **39B**, 317
- Pyruvate, **38B**, 635; **39B**, 435; **40B**, 833
 carboxylase, **38B**, 285
 kinase, **38B**, 43
 production, **39B**, 377
- Pyruvic acid, **40A**, 945
- Quahaugs, **39B**, 579
- Quail (see also Latin name), **38A**, 541;
 38A, 611; **39B**, 151; **39B**, 789;
 40B, 489
- Quaternary structure, **40B**, 1045
- $^{86}\text{Rb}^+$ uptake, **39B**, 955
- RBC (red blood cell), **38A**, 469; **38A**, 777;
 39A, 437; **39A**, 583; **40A**, 349
- RCI, **38B**, 21
- RNA (ribonucleic acid), **39B**, 559;
 40B, 223
 -chick embryo, **39B**, 843
- Rabbit(s) (see also Latin name), **38B**, 299;
 38B, 697; **39B**, 25; **40A**, 107;
 40A, 257; **40B**, 489; **40B**, 623
 and gerbil, **40B**, 93
 detrusor muscle, **40A**, 45; **40A**, 751
 α_2 -macroglobulin, **40B**, 439
 muscle, **39B**, 775
- Radioactive phosphate kinetic diffusion,
 39A, 45
- Radiopaque, **40A**, 107
- Radiosodium space, **39A**, 391
- Radio-telemetry, **40A**, 119; **40A**, 893
- Rainbow trout (see also Latin name),
 38A, 279; **38A**, 699; **38B**, 373;
 40A, 743; **40B**, 823
- Rana*
 sp., **40A**, 771
 catesbiana, **38A**, 457; **39B**, 445; **40A**, 213;
 40B, 733
 cancrivora, **38A**, 687
 esculenta, **39B**, 701; **40B**, 1011
- Rana* (cont.)
 montezumae, **40A**, 349; **40A**, 517
 pipiens, **38A**, 591; **38A**, 457; **38B**, 247;
 38B, 739; **39A**, 465; **39A**, 227;
 39B, 343; **39B**, 709; **40A**, 487;
 40A, 547; **40B**, 263
 ridibunda, **40A**, 911
 temporaria, **38A**, 687; **40B**, 489
 tigrina, **38B**, 225
- Rangifer tarandus*, **40A**, 495; **40A**, 789
- Rat (see also Latin names), **38B**, 239;
 38B, 285; **38B**, 697; **39B**, 377;
 40B, 489
 diaphragm, **39B**, 267
 haemoglobin, **40B**, 155
 heart, **39B**, 689
 liver, **40A**, 135
 liver enzyme, **39B**, 709
 myometrium, **38A**, 251
 snake (see also Latin name), **40B**, 489
- Rate temperature curves, **38B**, 21
- Rattus*
 norvegicus, **38A**, 251; **38A**, 369; **38B**, 119;
 38B, 651; **38B**, 697; **39A**, 545;
 39A, 599; **39A**, 723; **40A**, 135;
 40A, 273; **40A**, 305; **40B**, 71; **40B**, 81;
 40B, 155; **40B**, 489; **40B**, 1011
 rattus, **38B**, 119; **38B**, 239; **38B**, 285;
 39B, 367; **39B**, 377; **40A**, 659
- Reabsorption, **38A**, 541
- Receptors
 α -, **39A**, 45
 β -, **39A**, 45
 constancy, **38A**, 265
 to chemicals, **39A**, 665
- Rectal salt gland, **39A**, 185
- Red blood cell (see RBC)
- Rediae, **40B**, 335
- Redox potential in physiological solutions,
 40A, 595
- Red squirrel (see also Latin name),
 38A, 723; **39A**, 39
- Reflection coefficients, **38A**, 473
- Refractoriness, **40A**, 1043
- Regulation
 and conformity of metabolic rate,
 40A, 955
 of enzyme activity, **39B**, 765
- Regulatory enzyme, **39B**, 159
- Reindeer (see also Latin name), **40A**, 495;
 40A, 789
- Reingestion, **39A**, 657

- Relative levels of lactate and glycerophosphate dehydrogenases, **40B**, 531
- Relaxing factor, **40B**, 623
- Renal, **40A**, 107
- disease, **38A**, 183
 - function, **38A**, 541; **38A**, 787; **40A**, 373
 - function in fish, **39A**, 185
 - reabsorption of amino acids, **39A**, 29
 - tubular transport, **40A**, 467
- Renin, **40A**, 249
- activity and body weight, **39A**, 823
 - and sex in amphibian, **39A**, 823
 - angiotensin system, **39A**, 823; **39A**, 833
- Reproduction, **40B**, 515
- Reproductive
- condition, **40A**, 603
 - cycle, **38A**, 329
 - "stress", **39B**, 101
- Reptile(s), **40A**, 669; **40A**, 865
- at sub-freezing temperatures, **39A**, 125
 - C.N.S., **38A**, 175
 - heart, **40A**, 881
 - metabolism, **39A**, 495
- Resonant panting, **40A**, 549
- Respiration, **38A**, 1; **38A**, 213; **38A**, 233; **38B**, 269; **38B**, 309; **38B**, 379; **39A**, 165; **39B**, 589; **40A**, 89; **40A**, 549; **40A**, 603; **40A**, 681; **40A**, 851; **40A**, 871; **40B**, 907
- of excised gill, **39A**, 699
 - rate, **39A**, 403
- Respiratory
- control, **38B**, 309; **39A**, 147
 - evaporation, **38A**, 611
 - frequency, **39A**, 297
 - mechanics, **40A**, 549
 - movement, **38A**, 751
 - pigment, **40B**, 1045
 - quotient, **38A**, 121
 - responses, **39A**, 147
- Response of respiration to salinity, **39A**, 699
- Resting potential, **38A**, 715; **39A**, 521; **40A**, 761
- Reticulocytes, **40A**, 743
- Retina, **39B**, 1005
- Reversal of heartbeat, **39A**, 795
- Rhesus monkey (see also Latin name), **39B**, 483; **39B**, 639
- Rhythmic motor output, **38A**, 751
- Rhythms, **38A**, 591; **40A**, 487; **40A**, 925
- and light, **39A**, 465
 - and sex, **39A**, 465
 - in liver glycogen, **39A**, 219
- Rhythms, (cont.)
- in *Rana pipiens*, **39A**, 219
- Ribonuclease, **40B**, 637
- Ribosomal
- conformation, **40B**, 1011
 - proteins, **40B**, 1011
- Ribosome(s), **38B**, 239; **39B**, 913
- Rodentia, **40B**, 71; **40B**, 81
- Role of glucagon, **40A**, 135
- Root effect, **38A**, 699
- Rotifers, **40B**, 459
- Routine metabolism, **38A**, 1
- Rubidium, **38A**, 251; **40A**, 751
- Sb, **38A**, 387
- SF-mice, **39B**, 131
- Si, **38A**, 387
- ³²SO₄, **40B**, 283
- Sr, **38A**, 387
- Sr²⁺ current, **39A**, 333
- Sabellaria*
- floridenisis*, **38B**, 405
 - kaiparaensis*, **38B**, 405
- Sabellariids, **38B**, 405
- Saccular nerve, **40A**, 1043
- Sacculus, **40A**, 1043
- Sacrophilus harrisi*, **39B**, 209
- Saimiri sciureus*, **39B**, 639
- Salamanders (see also Latin name), **40A**, 603; **40A**, 681
- Salamandra salamandra*, **40A**, 1055
- Saline solution, **40A**, 761
- Salinity, **39A**, 103; **40A**, 899; **40A**, 1015
- adaptation, **38B**, 537
 - variation, **39B**, 31
- Salivary glands, **39A**, 521
- Salmo*
- clarki*, **39B**, 195
 - gairdneri*, **38A**, 265; **38A**, 699; **38B**, 361; **39A**, 45; **39B**, 195; **39B**, 891; **40A**, 743; **40A**, 945; **40A**, 999; **40B**, 823
 - irideus*, **39B**, 701
 - namaycush*, **40B**, 207
 - solar*, **40A**, 127; **40B**, 563,
 - trutta*, **40A**, 945; **40B**, 563
- Salmon (see also Latin name), **38A**, 99; **38A**, 497; **38A**, 787; **40B**, 819
- amino acids, **40A**, 127
 - gonadotropin, **38B**, 451
- Salmonid, **39B**, 195; **39B**, 503
- fish, **40B**, 563
- Salt
- concentration, **38B**, 239

- Salt (*cont.*)
 metabolism, **38A**, 541
 regulation in quail, **39A**, 751
 tolerance, **39A**, 473
 -water adaptation, **38B**, 501; **40B**, 823
- Salvelinus*
alphinus, **38B**, 487; **40B**, 563
fontinalis, **38A**, 489; **39B**, 925; **40B**, 207;
40B, 465; **40B**, 563
namaycush, **39A**, 137
- Sarcomere, **40A**, 265
- Sarcophaga bullata*, **39A**, 761
- Sarcophilus harrisi*, **39B**, 203; **39B**, 213
- Sarcoplasm, **38A**, 715
- Sarcosomes, **38B**, 21
- Sarda chiliensis*, **39B**, 719
- Scallop (see also Latin name), **38A**, 581
- Scanning electron microscopy of blood cells,
40A, 89
- Scaphiopus holbrooki*, **40A**, 771
- Sceloporus*
jarrovi, **39A**, 125
magister, **40A**, 467
- Schematic immunologic models, **38B**, 513
- Schistocerca gregaria*, **39A**, 457; **40A**, 579;
40A, 761
- Schistosoma mansoni*, **38B**, 35; **38B**, 663;
39A, 859; **39B**, 775
 selection, **40B**, 1079
- Schizobranchia insignis*, **40B**, 407
- Scintillation counting chitin, **40B**, 341
- Scleractinia, **40B**, 113; **40B**, 945
- Scyllium canicula*, **40B**, 489
- Scyliorhinus canicula* L., **39A**, 297; **39A**, 307
- Sea
 nettle (see also Latin name), **40A**, 855
 water, **38A**, 787; **40A**, 203; **40A**, 547;
40A, 711
- Seal(s) (see also Latin name), **40B**, 423;
40B, 683
- Seasonal
 acclimation, **38A**, 723
 activity, **39A**, 671
 change of the activity, **38B**, 689
- Sebastodes alutus*, **39B**, 285
- Secretion, **39B**, 227
- Sedimentation coefficient of haemocyanin,
40B, 19
- Segmental nerves, **40A**, 1009
- Selected strain, **40B**, 321
- Selection, **40A**, 669
- Selective tissue catabolism, **38A**, 121
- Seminal vesicles, **40A**, 305; **40A**, 367
- Sensory
 epithelium, **40A**, 971
 spines, **40A**, 339
- Separation, **38B**, 129
- Sepia*
 sp., **38B**, 707; **39B**, 1005
officinalis, **38B**, 707; **40B**, 923
- Sericin, **40B**, 715
- Serine, **38B**, 405; **38A**, 535; **40B**, 945
 biosynthesis, **40B**, 593
 dehydratase, **39B**, 377; **40A**, 135
 metabolism, **38A**, 535; **39B**, 377; **39B**, 999
- Serine carartius*, **39B**, 151
- Serotonin (see also 5HT etc.), **38A**, 239;
39B, 435
- Serpulids, **38B**, 405
- Serum, **38B**, 53; **38B**, 373; **40B**, 301;
40B, 983
 albumin, **39B**, 523
 chloride, **39B**, 279; **39A**, 625
 composition, **38A**, 141; **39A**, 625
 electrolytes, **38A**, 141; **39B**, 209
 enzymes, **39B**, 209
 esterases, **39B**, 19; **40B**, 563
 glucose, **38A**, 141; **39A**, 625
 immunoglobulins, **38B**, 523
 iron, **40A**, 89
 lipoproteins, **39B**, 673; **40B**, 489
 Na⁺, K⁺, Cl⁺ in bats, **38A**, 129
 osmolality, **38A**, 141; **39A**, 625
 osmotic pressure, **40A**, 711
 potassium, **39A**, 625
 protein spectra, **40B**, 313
 proteins, **39A**, 671; **39B**, 209; **39B**, 279
 proteins in birds, **39B**, 789
 sickness antigen, **38A**, 827
 sodium, **39A**, 625
- Setonix branchyurus*, **39B**, 209
- Sex, **38A**, 709; **40A**, 603
 differences, **38A**, 675
 differences in mitotic rhythms, **39A**, 227
 differences in response to environment,
39A, 227
 differences in rhythms, **39A**, 219
- Sexual maturation in *Nereis*, **39A**, 683
- Sheep (see also Latin name), **39B**, 483;
40B, 489; **40B**, 521
 red cells as antigen, **38A**, 571; **38A**, 827
 small intestine, **38B**, 5
- Shells, **40B**, 1037
- Shetland pony (see also Latin name),
39B, 279

- Short-circuit current, **38A**, 489; **38A**, 687; **40A**, 39
- Sialic acid, **38B**, 53; **40A**, 305
- Silicon, **38A**, 387
- Silk, **40B**, 475
- Silk-fibroin, **40B**, 715
- Silkworm, **39B**, 317
- Silver, **38A**, 387
- Sinatherina semibullata*, **40B**, 459
- Single unit response, **40A**, 733
- β -Sitosterol, **39B**, 815
- Sixth abdominal ganglion, **38A**, 407
- Skeletal
 chitin, **40B**, 113; **40B**, 945
 lipid, **40B**, 945
 muscles, **38A**, 715; **40A**, 945
 protein, **40B**, 113; **40B**, 945
- Skin, **38A**, 611
 permeability, **40A**, 547
 potential, **38A**, 687
 temperature, **40A**, 359
 water loss, **40A**, 1055
- Small intestine, **38B**, 697; **40A**, 229
- Smell, **40A**, 399
- Sminthopsis crassicaudata*, **40A**, 723
- Smolt, **40A**, 127
- Snail (see also Latin name), **38A**, 565; **39A**, 267
 brain, **39B**, 879
 neurones, **40A**, 281; **40A**, 715
- Snake(s) (see also Latin names), **40A**, 669; **40A**, 865
 chemical analysis, **38B**, 553
 deaminase, **39B**, 969
 venoms, **39B**, 589; **39B**, 963; **40B**, 633
- Sodium, **38A**, 99; **38A**, 387; **38A**, 541; **38B**, 553; **39A**, 833; **40A**, 203; **40A**, 543; **40A**, 547
 depletion, **39A**, 833
 deprivation, **39A**, 833
 efflux rate, **39A**, 391
 influx in nerve, **40A**, 71
 loading, **39A**, 833
 -potassium activated ATPase, **40B**, 823
 -potassium linked pump of gill, **39A**, 699
 transport, **38B**, 269; **39A**, 208; **39A**, 209; **39A**, 367; **40B**, 823
- Soil
 air composition, **40A**, 89
 -dwelling animal behaviour, **40A**, 89
- Solar radiation, **40A**, 359
- Solaster papposus*, **39B**, 979
- Solute extrusion, **39A**, 103
- Somali donkey (see also Latin name), **39A**, 403
- Somateria mollissima*, **40A**, 805; **40B**, 579
- Sorbitol, **40A**, 305
- Sparrow (see also Latin name), **39B**, 151
- Spawning, **38A**, 329; **40B**, 241
- Species
 and races, **40B**, 313
 differences in free amino acids, **38B**, 679
 discrimination in, **38B**, 263
 specificity, **38A**, 477
 specificity of enzymes, **39B**, 305
- Specificity of amphibian reninangiotensin, **39A**, 823
- Spectral energy distribution, **40A**, 163
- Spectrophotometry, **40B**, 841
- α -Spectrum analysis, **38A**, 387
- Speotyto cunicularia hypogaea*, **39A**, 653
- Spermatophores, **40B**, 475
- Sphermophilus lateralis*, **38A**, 121
- Sperm whale (see also Latin name), **39B**, 395
- Spheniscus humboldti*, **40A**, 689
- Sphenodon punctatum*, **40A**, 881
- Sphingidae, **40A**, 871
- Sphingomyelin, **39B**, 183; **40B**, 423
- Spinal shock, **38A**, 175
- Spironolactone, **40A**, 203
- Spirostreptus asthenes*, **38A**, 351
- Spleen, **38A**, 129; **39B**, 325
- Spontaneous
 activity, **40B**, 321
 atherosclerosis, **38A**, 675
 avian atherosclerosis, **38A**, 675
 contractility, **40A**, 751
 neural discharge, **38A**, 279
- Sporophila* sp., **38A**, 91
- Squalene, **40B**, 723
- Squalus*
 acanthias, **39B**, 415; **40A**, 145
 suckleyi, **39A**, 505
- Squid axon, **40A**, 71
- Squirrel monkey (see also Latin name), **39B**, 639
- Standard metabolism, **38A**, 1; **38B**, 635
- Starch
 -degrading enzymes, **40B**, 983
 gel electrophoresis, **38A**, 637; **39B**, 483
- Starvation, **40A**, 1087
 and haemocyanin, **39A**, 735
 in molluscs, **00O**, 627
- Statistical analysis, **39A**, 45
- Staurotypus triporcatus*, **40B**, 931

- Stearic acid, **38B**, 333; **39B**, 247
Stenella graffmani, **38B**, 353
 Stenoglossan, **40B**, 37
Stentor coeruleus, **40A**, 639
Sternothaerus
 minor, **38B**, 459
 odoratus, **38A**, 53; **38B**, 459
 Steroid(s), **38B**, 315; **39B**, 101; **39B**, 131
 dehydrogenase, **40B**, 575
 hormone biosynthesis, **40B**, 53
 hormone identification, **40B**, 53
 Steroidogenesis in ovary, **38A**, 329
 Sterol(s), **38A**, 581; **38B**, 147; **38B**, 179;
 38B, 597
 biosynthesis in molluscs, **39B**, 139
 composition of some mesogastropods,
 39B, 139
 esters, **39B**, 247
 Stilboestrol, **39B**, 25; **40A**, 257
 Sting ray (see also Latin name), **39A**, 505
 Stolon, **39A**, 795
 Stomach, **40B**, 465
 Streptomycin, **40B**, 855
Streptopelia
 chinensis, **40B**, 317
 risoria, **38B**, 447
 Stress, **38A**, 183; **38A**, 497; **39A**, 709
 -induced changes in metabolic rate,
 40A, 955
 Stretch receptor, **40A**, 523
 Striated border, **39B**, 227
 Striped mullet (see also Latin name),
 38B, 451
 Strontium, **38A**, 387
Strophocheilus oblongus, **40B**, 395
 musculus, **38B**, 753
 Structural
 gene, **39B**, 195; **39B**, 503
 proteins, **40B**, 37
 Structure of haemoglobin, **39B**, 797
 Strychnine convulsions, **38A**, 175
 Stubble quail (see also Latin name), **39B**, 1
Stylifer linkiae, **40B**, 109
 Subcellular localization of glycolysis
 38B, 5
 Subcutaneous temperature, **40A**, 893
 Subhuman primates, **39B**, 639
 Substrate and Mg^{2+} protection, **39B**, 383
 inhibition, **40B**, 671
 Sub-unit(s), **40B**, 1045
 composition of haemocyanins, **38A**, 317
 structure, **39B**, 195; **39B**, 503
 Succinate, **39B**, 435; **39B**, 919; **40B**, 973
 Succinate, (*cont.*)
 dehydrogenase, **38B**, 493
 production, **38B**, 543; **40B**, 993
 Succinic dehydrogenase, **38A**, 603; **38B**, 43;
 40A, 405
 Sucrose
 gap method, **38A**, 301
 space, **40A**, 45
 Sugar(s), **38B**, 53; **38B**, 179
Sulcanus confictus, **38B**, 361
 Sulphate, **39B**, 25; **40A**, 257
 Sulphate (sulfate), **39B**, 25; **40A**, 257
 Sulphydryl (sulfhydryl), activation,
 38B, 651
 groups, **39B**, 383
 Sulphocysteine (sulfocysteine), **40B**, 571
 Sulphonamides (sulfonamides), **38B**, 707
 Sulphur (sulfur) metabolism, **40B**, 571
 Sunfish (see also Latin name), **40A**, 733
 Supercooling, **39A**, 125
 Survival on sea water, **39A**, 473
Sus
 domesticus, **39B**, 325; **39B**, 873;
 40A, 557; **40A**, 569; **40B**, 489
 scrofa, **38B**, 53; **38B**, 299; **39B**, 119;
 39B, 305; **39B**, 725; **40B**, 575
 Sweating, **39A**, 403
 Swimbladder, **39A**, 119; **39A**, 357; **40A**, 609
 Swimming speed, **39A**, 1
 Swine (see also Latin name), **39B**, 873
Sylvilagus floridanus, **39A**, 657
 Symbiosis, **38A**, 233
 Symmetry axis, **40B**, 1045
 Synapse, **38B**, 529
 Synthesis, **39B**, 701
Syphacia muris, **38B**, 43
Tachyglossus aculeatus, **39B**, 203; **39B**, 209;
 40A, 249
 Tadpole(s) (see also Latin name), **40B**, 733
 intestine, **38B**, 225
Taenia hydatigena, **39B**, 167
 Tagging salmon, **39A**, 709
 Tail
 blood flow, **40A**, 659
 rectal and colonic temperature, **40A**, 659
Talpa europea, **40A**, 89
Tamias striatus, **38A**, 59
Tamiasciurus hudsonicus, **38A**, 723;
 39A, 39
 Tammar, **39A**, 473
 Tannic acid, **39A**, 583
 Tanning, **40B**, 37

- Tapeworm (see also Latin name), **40B**, 885
 physiology, **40B**, 993
 Taste, **38A**, 265
 Taurocholic acid, **40B**, 993
 Taurodeoxycholic acid, **40B**, 993
Taxidea taxus, **38B**, 353
 Taxonomic value of muscle proteins, **38B**, 487
 Taxonomy, **40A**, 669
 Teleost(s), **38B**, 373; **40A**, 851; **40A**, 1087
 erythrocyte metabolism, **38B**, 585
 excretion, **40A**, 999
 fish, **39B**, 89
 gas swimbladder, **38A**, 489
 Teleostei, **38A**, 329; **40B**, 1005
 Temperature, **38A**, 1; **38A**, 555; **38B**, 247;
 38B, 635; **38B**, 739; **39A**, 63;
 39A, 277; **39A**, 523; **39A**, 535;
 39B, 357; **39B**, 919; **39B**, 925;
 40A, 213; **40A**, 359; **40A**, 603;
 40A, 609; **40A**, 681; **40A**, 815;
 40A, 833; **40A**, 855; **40A**, 945;
 40A, 1087; **40B**, 165; **40B**, 181;
 40B, 465; **40B**, 959
 acclimation, **38A**, 723; **39A**, 495;
 40B, 465; **40B**, 651
 adaptation, **38A**, 723; **40B**, 671
 and acute CO₂ levels, **38A**, 509
 and salinity variations, **40A**, 145
 compensation, **39A**, 495; **40B**, 249
 control, **40A**, 553
 dependence, **40B**, 1011
 dependent discharge, **40A**, 523
 dependent metabolic shifts, **39A**, 495
 effects, **39B**, 747; **39B**, 765; **40A**, 865
 heart, **40A**, 881
 near freezing, **38A**, 141
 optimum of phosphatase, **39B**, 311
 regulation, **38A**, 203; **38A**, 59; **39A**, 403;
 39B, 163; **40A**, 659; **40A**, 689;
 40A, 935
 Temporary anaerobiosis, **40B**, 907; **40B**, 917
Tenebrio molitor, **39A**, 457
 malate dehydrogenase, **39B**, 1045
 Tension, **38A**, 339
 in receptor muscle, **40A**, 523
 Termitode, **39A**, 165
 Terminal oxidases, **40B**, 973
Terrapene
 sp., **39A**, 125
 carolina triunguis, **38A**, 53
 Testes, **39A**, 361; **40B**, 841
 Testicular blood flow, **38A**, 705
 Testis, **38A**, 705; **39A**, 599
 Testosterone, **38B**, 315; **3939A**, 177
Testudo
 graeca, **39B**, 83; **40A**, 39; **40B**, 489
 hermanni, **39B**, 83; **40B**, 1011
 marginata, **39B**, 83
 Tetracycline, **40B**, 855
Tetrahymena pyriformis, **40B**, 381;
 40B, 593; **40B**, 855
 Tetrapeptide linkage, **39B**, 31
 Tetrazolium oxidase, **39B**, 891
 Tetradotoxin, **40A**, 71
Thais
 floridana, **40B**, 1037
 lamellosa, **40A**, 627
Thamnophis sirtalis, **39A**, 495; **40B**, 671
 Therian mammals, **39B**, 455
 Thermal
 acclimation, **38A**, 1; **40A**, 681; **40B**, 207;
 40B, 249
 conductance, **40A**, 689
 ecology, **40A**, 119
 gradient, **40A**, 213
 neutrality, **40A**, 797
 relations, **40A**, 1109
 tolerance, **40A**, 1109
 Thermoelastic muscle tension, **40A**, 523
 Thermogenesis, **38A**, 723; **40A**, 979;
 40B, 601
 Thermoregulation, **38A**, 525; **38A**, 611;
 38A, 723; **39A**, 413; **39A**, 671;
 40A, 119; **40A**, 213; **40A**, 553;
 40A, 809; **40A**, 815; **40A**, 893
 in birds, **38A**, 743; **39A**, 235; **40A**, 1107
 Thin-layer chromatography, **39B**, 1;
 39B, 247; **39B**, 823; **40B**, 481
 Thiocyanate, **40B**, 7
 Thiouracil, **40A**, 553
 Thoracic vs. abdominal aorta, **38A**, 675
 Threonine aldolase, **40B**, 593
Thunnus
 alalunga, **39B**, 719
 thynnus, **39B**, 719; **39B**, 925
Thylogale billardieri, **39B**, 203
³H-thymidine uptake, **38A**, 591
 Thyroid(s), **38B**, 697; **39A**, 361; **40B**, 139
 hormone, **40B**, 601
 peroxidase, **40B**, 139
 Thyroxine, **38A**, 743; **39B**, 55; **40A**, 553
 disappearance rate or turnover rate,
 40A, 789
 Tidal rhythm, **40A**, 925
Tilapia aurea, **38A**, 329; **40B**, 1005

- Tissue**
 catabolism, **38A**, 121
 culture of embryo cells, **40B**, 327
 esterase of DDT-fed rats, **40B**, 841
Toad (see also Latin name), **39A**, 447
 bladder, **38B**, 269
 brain, **38A**, 655
Tobacco hornworm (see also Latin name), **40A**, 871
Tolbutamide, **40A**, 557
Tom turkey, **39B**, 483
Tortoise(s) (see also Latin name), **40B**, 489
Total
 free fatty acids, **38B**, 179
 water, **39A**, 45
Trans-6-hexadecenoic acids, **40B**, 931
Transaminase, **40B**, 241
Transferrins, **38B**, 447; **40A**, 669;
40B, 147; **40B**, 521; **40B**, 567
Transient bradycardia, **39A**, 307
Transmembrane ionic gradients, **38A**, 715
Transmural potential difference, **40A**, 39
Transport numbers of K⁺, Cl⁺, **40A**, 181
Trematode
 absorption, **40A**, 987
 physiology, **38A**, 713
Trematomus borchgrevinki, **40B**, 181
Triacna gigas, **38A**, 339
Tricarboxylic acid cycle, **38B**, 279;
38B, 493
Trichosurus vulpecula, **39B**, 203; **39B**, 219
Tridachia crispata, **38A**, 233
Triglyceride(s), **39B**, 1049; **40B**, 423
Triosephosphate isomerase, **40B**, 455
Tris
 -HCl buffer, **39B**, 483
 -maleate buffer, **39B**, 483
Triton vulgaris, **39B**, 701
Triturus
cristatus carnifex, **40B**, 53
vittatus, **40A**, 1055
Trogoderma sp., **39B**, 183
Tropomyosin B, **40B**, 571
Trout (see also Latin name), **38A**, 699;
40A, 743
 excretion, **40A**, 999
Trypanosoma
cruzi, **38A**, 535; **39B**, 999
lewisi, **39B**, 247; **39B**, 425
rhodesiense, **39B**, 247; **39B**, 775;
40B, 973
Trypanosomes, **40B**, 481
Trypsin, **38B**, 507; **38B**, 697; **40B**, 633
Trypsin, (cont.)
 inhibitor, **38B**, 697; **40B**, 439
 like enzyme, **38B**, 197
Tryptic activity (Echiurus), **38B**, 507
Tryptophan
 metabolism, **39B**, 709
 oxidation, **39B**, 855
 oxygenase, **39B**, 709
 pyrrolase, **38B**, 627
Tsetse fly (see also Latin name), **38B**, 347
Tuatara (see also Latin name), **40A**, 881
Tuna (see also Latin name), **38A**, 203
Tunic, **40B**, 615
 composition, **40B**, 615
Tunicate heart, **39A**, 795
Tunicin, **40B**, 615
Tupaiidae, **38A**, 709
Turbatrix aceti, **38B**, 279
Turkey (see also Latin name), **38B**, 513;
40A, 425; **40A**, 445; **40B**, 489
Turnover rates and adaptation, **40A**, 723
Tursiops truncatus, **38B**, 353; **40B**, 423
Turtle (see also Latin name), **40B**, 741
 heart, **39B**, 689
Tween, **39B**, 227
Tyrosine, **38B**, 87; **40A**, 987; **40B**, 1037
 aminotransferase, **40B**, 241
5'-UMP, **40B**, 347
U/P ratio, **38A**, 37
Uca pugilator, **38A**, 17; **39B**, 31; **39B**, 291
Ultracentrifugation, **38A**, 17; **40B**, 19;
40B, 1045
Ultrastructure, **40B**, 37; **40B**, 715
Ultra-violet
 absorbancy, **39B**, 367
 fluorescence, **40B**, 7
Uma sp., **39A**, 125
Unequal homologous crossing-over,
39B, 455
Ungulates, **39B**, 455
Unidirectional artificial ventilation, **40A**, 425
 fluxes, **38A**, 473
Unsaturated fatty acids, **39B**, 823
Unweighted pair group method, **39B**, 455
Upogebia pugettensis, **40A**, 1
Uptake, **39B**, 61
Urate transport, **40A**, 467
Urban, **40B**, 489
Urea, **38A**, 163; **38A**, 565; **39A**, 185;
40A, 999; **40B**, 503
 biosynthesis, **40B**, 863
 cycle enzymes, **38B**, 295

- Urea, (*cont.*)
 formation in elasmobranch, **39B**, 415
 -N, **39A**, 657
 synthesis, **39B**, 409
Urechis caupo, **38B**, 463
 Ureogenesis, **38A**, 565
 Ureotelism, **40B**, 781
 Ureter of guinea pig, **38A**, 301
 Uric acid, **38A**, 565; **40A**, 1029
 Uricase, **40B**, 863
 Uricotelism, **40B**, 781
 Uridine, **40B**, 223
 Urinary
 potassium, **40A**, 1029
 sodium, **40A**, 405
 water loss, **40A**, 797
 Urine, **38A**, 541; **38A**, 787; **38B**, 247;
38B, 739; **40A**, 1029
 and plasma osmolality, **39A**, 473
 and plasma sodium in amphibian,
39A, 833
 concentration, **39A**, 473
 production in birds, **39A**, 75
 volume, **38A**, 359
Urolophis jamaicensis, **39B**, 415
 Uropods, **40A**, 339
 Uropygial gland, **39B**, 1
Urosaurus sp., **39A**, 125
Ursidae euarctos americanus, **38B**, 295
Ursus
horribilis, **40B**, 309
meritimus, **40B**, 309
Uta, sp., **39A**, 125

 V, **38A**, 387
 Vagotomy, **40A**, 425
f-Valence, **38B**, 513
 Valine, **39B**, 357; **39A**, 553
 Valinomycin, **39A**, 807
 Vanadium, **38A**, 387
Varanus salvator, **40B**, 489
 Variation, **38B**, 35
 Varying amount of dry substance, **40A**, 823
 Vascular catheterization, **39A**, 391
 Vasoconstriction, **40A**, 107
 Vasopressin, **38B**, 269; **38A**, 687; **39A**, 203
 Vasopressinase, **39A**, 203
 Vasotocin, **40A**, 1055
Veella sp., **39B**, 1039
 Venoms, **39B**, 963; **39B**, 1023
 Venous pump, **38A**, 91
 Ventilation, **40A**, 1065
 perfusion ratio, **39A**, 505
 Ventilation, (*cont.*)
 rate, **40A**, 1065
 Ventricular tissue, **38A**, 517
Venus mercenaria, **39B**, 579
 Vertebrate(s), **39B**, 701
 blood cooling, **39A**, 125
 Vertical starch gel electrophoresis, **38B**, 487
 Vespertilionidae, **38A**, 129; **39A**, 549
 Villus, **40A**, 649
 Vinyl- α -glyceryl ether content, **38B**, 147
 Violaxanthin, **40B**, 47
 Vision, **39A**, 457; **40A**, 733; **40B**, 61
 Visual process, **39B**, 1005
 Vitamin
 A, **39B**, 945
 B₁₂, **38B**, 467; **40B**, 301
 Vitellogenesis, **39B**, 291
 Volatile fatty acid, **39B**, 435
 Voltage clamp, **40A**, 715
 Volume regulation, **39A**, 103
 in bivalves, **38A**, 619
Vulpes vulpes alascensis, **40B**, 309

Wallabia
bicolor, **39B**, 209
rufogrisea, **39B**, 203
 Water, **40A**, 203
 balance, **38A**, 37; **38A**, 525; **39A**, 549;
40A, 797
 deprivation, **38A**, 37; **38A**, 121;
40A, 723
 economy, **40A**, 911; **40A**, 1055
 excretion anomalies, **38A**, 359
 loss, **40A**, 911
 metabolism, **38A**, 121
 monitor, **40B**, 489
 oxygen ratios, **40A**, 723
 permeability, **38A**, 489
 regulation, **39A**, 53
 regulation in quail, **39A**, 75
 snakes (see also Latin name), **40B**, 489
 turnover, **39A**, 379; **40A**, 723
 turnover in birds, **39A**, 653
 uptake, **40A**, 911
 Wax esters, **39B**, 1
 Weddell seal (see also Latin name),
38B, 471
 Weight fluctuation, **38A**, 129
 Whale (see also Latin name), **39B**, 299;
40B, 683
 Whelk (see also Latin name), **40B**, 37
 Whistling duck (see also Latin name),
40A, 445

White-lipped mud turtle, **40B**, 931
Wolf (see also Latin name), **40B**, 309
Wolverine (see also Latin name), **40B**, 309
Worker, **38B**, 129; **39B**, 335

Xanthine dehydrogenase, **40A**, 1029
Xenodon merrimii, **38B**, 553
Xenon-133, **40A**, 503
Xenopus laevis, **39A**, 879; **40B**, 263
X-irradiation, **40B**, 651
X-ray diffraction, **40B**, 715

Yeasts, **39B**, 607
Yolk, **40A**, 61

Zeaxanthin, **40B**, 61
Zinc, **38A**, 387; **40B**, 129
 metalloprotein, **38B**, 707
Zoanthidea, **40A**, 19
Zoanthus sp., **39A**, 743
Zoogeography, **40A**, 669
Zooxanthellae, **40B**, 945

AUTHOR INDEX

Volumes 38-40 A and B inclusive, 1971

- ABBOTT, K. D. 38A, 37
 ABE, A. 38B, 553
 ABODERIN, A. A. 40A, 113
 ACKMAN, R. G. 39B, 579, 40B, 683, 931
 ACTON, R. T. 38A, 483, 38B, 523
 ADAMS, D. R. 40A, 971
 ADDINK, A. D. F. 38B, 707
 AGARWAL, H. C. 39B, 183
 AHSANULLAH, M. 39A, 277
 AIKAWA, M. 39B, 897, 913
 AKIYAMA, M. 38B, 93
 ALEKSIUK, M. 38A, 723, 39A, 495, 40B, 671
 ALEXANDER, C. G. 40A, 339
 ALEXANDER, K. M. 40A, 55
 ALIKHAN, M. A. 39A, 735
 ALLEE, G. L. 40A, 557, 569
 ALLEN, J. A. 39A, 633
 ALLEN, P. Z. 38B, 439
 ALOIA, R. C. 38A, 517
 ALUMOT, E. 39B, 61
 AMARAL, A. D. 38B, 553
 AMELINK-KOUTSTAAL, J. M. 39A, 1
 ANASTASSIADIS, P. A. 38B, 53
 ANDREWS, R. V. 38A, 183, 40A, 979
 ANSCHEUTZ, R. A. 40A, 107
 ARINZE, J. C. 38B, 285
 ARMENTROUT, D. 39A, 447
 ARMSTRONG, D. G. 38B, 5
 ASMUNDSON, S. J. 38A, 645
 ASSAF, S. A. 39B, 395
 ATWOOD, J. 39B, 203
 AULIE, A. 38A, 91, 39A, 173
 BABERO, B. B. 39A, 361
 BADMAN, D. G. 38A, 663
 BADR, F. M. 39B, 131
 BAHR, T. G. 38A, 279
 BAILEY, T. G. 40A, 83, 40B, 699
 BAIR, T. D. 39A, 165
 BAKER, C. M. A. 40B, 147
 BAKER, P. C. 39A, 879
 BALDWIN, J. 40B, 181
 BALL, R. C. 38A, 279
 BALNAVE, D. 39A, 177, 40A, 1097, 40B, 189
 BALOGUN, R. A. 38B, 347
 BAMFORD, D. R. 38A, 603
 BANKS, W. 40B, 983
 BANNISTER, W. H. 40B, 7, 19
 BARKER, S. 38A, 359
 BARKSDALE, B. K. 40A, 273
 BARLOW, J. S. 38B, 333, 39B, 823
 BARNABAS, J. 39B, 455
 BARNES, L. B. 40B, 407
 BARNETT, J. E. G. 40B, 585
 BARNICOT, N. A. 39B, 659
 BARRETT, J. 38B, 279
 BARTELL, C. K. 38A, 17
 BARTELS, W. J. 40B, 1045
 BASS, E. L. 40A, 833
 BASSI, S. DEV. 40A, 103
 BATRA, S. C. 38A, 285, 369
 BAYLY, I. A. E. 38B, 361
 BAYNE, B. L. 40A, 955, 1065
 BEATTIE, C. W. 40B, 907, 917
 BEDFORD, J. J. 40A, 899, 1015
 BEDRAK, E. 38B, 41
 BEESLEY, P. 39B, 423
 BELLINI CARDELLINI, L. 40B, 53
 BENNETT, JR., R. 40B, 807
 BENNETT, D. S. 39A, 611
 BENNETT, J. 39A, 859
 BENSADOUN, A. 39B, 45, 55
 BENTLEY, P. J. 40A, 547
 BERDYSHEV, G. D. 40B, 1057
 BERNSTEIN, M. H. 38A, 611
 BERRIDGE, B. J. 39B, 639
 BERTHILLIER, G. 40B, 439
 BHATTACHARYA, S. 40B, 139, 317
 BHATTI, I. 40A, 987
 BIELAWSKI, J. 39B, 649
 BINTZ, G. L. 38A, 121
 BINTZ, L. B. 38A, 121
 BIRD, R. G. 40B, 481
 BIRNDORF, N. I. 38A, 157
 BISHOP, S. H. 40B, 407
 BJORKHEM, I. 38B, 35
 BLATCHFORD, J. G. 39A, 193
 BLIX, A. S. 40A, 805, 40B, 579
 BLOOMFIELD, R. A. 38B, 373
 BLUM, M. S. 38B, 103
 BODWELL, C. E. 40B, 571
 BOIS D'ENGHIEN, A. P. 40B, 1045
 BOLLA, R. I. 40A, 777, 40B, 885
 BONNER, T. P. 40B, 121
 BONTING, S. L. 39B, 955, 1005
 BOOKE, H. E. 38B, 327
 BOORMAN, K. N. 39A, 29
 BORBERS, M. 38B, 43
 BORNO, C. 38B, 507
 BORZYNSKI, L. J. 40B, 575
 BOWLER, K. 39A, 583
 BOWMAN, I. B. R. 40B, 973
 BOYD, C. E. 40A, 771
 BRADLEY, W. G. 39A, 671
 BRAND, G. W. 38B, 361
 BRATZLER, L. J. 39B, 395
 BRDICKA, R. 38B, 119
 BRETT, W. J. 40A, 925
 BRINKMAN, F. G. 38A, 309, 387
 BRISTOL, J. R. 40A, 681
 BROWN, S. C. 40B, 637
 BUEDING, E. 39A, 859
 BURK, D. 39B, 279
 BURKE, W. 38A, 339
 BURLINGTON, R. F. 38A, 469
 BURNETT, J. W. 40A, 855
 BURSEY, C. R. 39A, 483, 40A, 155
 BURTON, D. T. 40A, 945
 BURTON, R. F. 39A, 267, 875
 BUSSELEN, P. 38A, 317
 BUTLER, D. G. 40A, 1087
 BUTLER, P. J. 39A, 297, 307
 BYRD, J. B. 38B, 103
 CAIN, G. D. 40B, 165
 CALHOON, T. B. 38A, 675
 CALHOUN, III, W. B. 40B, 959
 CAMBELL, J. W. 40B, 395
 CAMERON, B. F. 39B, 395
 CAMERON, J. N. 38A, 699, 39A, 505, 40A, 743
 CAMERON, R. D. 40A, 495
 CAMPBELL, R. 38B, 697

- CANDLISH, J. K. 40B, 283
 CARDWELL, R. D. 38A, 497, 39A, 709
 CAREY, C. 39A, 75
 CARMENA, A. O. 40A, 349, 517
 CARTA, S. 38B, 119
 CASSUTO, Y. 39B, 919
 CASTILLON, M. P. 38B, 109
 CATALAN, R. E. 38B, 109
 CHAFFEE, R. R. J. 38A, 709
 CHAIRCH, P. 38A, 175
 CHANDRABOSE, K. A. 39B, 45, 55
 CHANNON, M. 38B, 53
 CHAO, W. R. 39B, 639
 CHAPMAN, T. E. 39A, 653
 CHARBONNEAU, R. 38B, 295
 CHENG, T. C. 40B, 109
 CHIA-HUANG WANG, L. 38A, 59
 CHIANG, P. K. 40B, 455
 CHIEFFI, G. 40B, 53
 CHINN, S. 39A, 769
 CHOU, S. C. 40B, 855
 CHRISTENSON, C. P. 39B, 789
 CHRISTENSSON, E. G. 40B, 381
 CHUN, P. W. 39B, 523
 CICMANEC, J. 40B, 593
 CLARKE, J. A. 40A, 89
 CLEMENT, R. 40A, 405
 COLDMAN, M. F. 38A, 777
 COLES, G. C. 38B, 35, 40B, 1079
 COLLEY, L. 38B, 537
 CONKLIN, K. A. 40B, 855
 CONLEY, M. I. 40A, 797
 CONNOLLY, K. 40B, 321
 COOK, B. J. 40A, 385
 COOK, R. T. 38B, 425, 39B, 897, 913
 COULSON, R. A. 38B, 679, 40B, 741
 CRAWFORD, Jr., E. C. 40A, 549
 CREIGHTON, S. R. 39B, 607
 CRISPIN, Jr., C. R. 38B, 87
 CROCKER, A. D. 40A, 203
 CROSS, C. E. 39A, 807
 CROSSMAN, A. R. 40A, 579
 CUMMINGS, J. G. 39B, 639
 CURCI, S. 38A, 473
 CUSHING, J. E. 39B, 299
 CVANCARA, V. A. 40B, 819
 CZECZUGA, B. 39B, 945, 40B, 47
- DAFTARI, B. 39B, 725
 DAHLMAN, D. L. 40A, 871
 DALL, W. 39B, 31
- DANIEL, E. E. 38A, 251, 285, 369
 DANIELSSON, H. 38B, 315
 DANTZLER, W. H. 40A, 467
 DAS, P. K. 39B, 979
 DATTA, A. G. 40B, 139
 DAVIDSON, F. D. 38B, 93
 DAVIES, M. I. 40B, 129
 DAVIS, J. C. 39A, 505
 DAVIS, P. W. 40B, 823
 DAVIS, R. S. 39B, 689
 DAVISON, T. F. 38B, 21
 DECLEIR, W. 40B, 923
 DEHNEL, P. A. 40B, 615
 DEJORGE, F. B. 38B, 553, 753
 DELRIO, G. 40B, 53
 DEMSKI, L. S. 40A, 733
 DEPOLI, J. R. 38A, 655
 DE PONT, J. J. H. H. M. 39B, 1005
 DESSAUER, H. C. 40A, 669
 DEUTSCH, H. F. 39B, 489
 DE VILLAFRANCA, G. W. 38A, 733, 40B, 623
 DEVILLEZ, E. J. 38B, 235
 DE VORE, L. 39B, 383
 DEWBERRY, F. L. 38A, 489
 DICKER, S. E. 38A, 687
 DIEBOLT, J. R. 40B, 1029
 DILL, D. B. 39B, 279
 DIMELow, E. J. 39B, 979
 DIXON, H. 39B, 247
 DJANGMAH, J. S. 38A, 461
 DOMM, A. J. 38A, 163
 DRENT, R. H. 40A, 689
 DREWES, C. D. 38A, 751
 DREWRY, G. E. 39B, 1053
 DUBOIS, H. 38B, 263
 DUNCAN, C. J. 39A, 583
 DUNCAN, W. R. H. 39B, 1049
 DUNLAP, D. G. 38A, 1
 DUNSON, M. K. 40A, 319
 DUNSON, W. A. 40A, 319
 DUPREE, H. K. 38B, 523
 DUSANIC, D. G. 39B, 425
 DWARAKANATH, S. K. 38A, 351
- EAPEN, J. 40B, 651
 EATON, C. A. 40B, 683
 EBARA, A. 39A, 795
 ECKSTEIN, B. 38A, 329, 40B, 1005
 EDELHAUSER, H. F. 38A, 489
 EDGER FOLK, Jr., G. 40B, 309
 EDKINS, E. 39B, 1
- EDWARDS, L. J. 38A, 509
 EDWARDS, R. R. C. 40A, 391
 ELLIOT, F. G. 40B, 1045
 ELLIOTT, W. B. 39B, 1023
 ELLIS, D. S. 40B, 481
 ELLORY, J. C. 39A, 209
 EMSON, P. C. 39B, 879, 40B, 223
 EPSTEIN, S. 40B, 683
 EVANS, E. E. 38A, 483
 EVANS, R. M. 40A, 1029
 EVERED, D. F. 39B, 377
 EWING, W. G. 38A, 129, 39A, 549
 EYBEL, C. E. 40B, 601
- FAIRBAIRN, D. 38B, 279, 40B, 165
 FAIRBANKS, M. B. 39A, 137
 FASCILOLO, J. C. 39A, 823, 833
 FAVOROV, V. V. 38B, 689
 FEDDE, M. R. 40A, 425
 FEIR, D. 40A, 103
 FELDHOFF, R. C. 40B, 733
 FELLMAN, J. H. 40B, 241
 FELTHAM, L. A. W. 38B, 543, 39B, 159, 163
 FERGUSON, A. 38B, 477
 FERGUSON, J. H. 39A, 39, 40B, 309
 FERGUSON, W. E. 40B, 959
 FIELDER, D. R. 39B, 291
 FINGERMAN, M. 38A, 17, 39B, 291
 FISHER, J. R. 39B, 969, 40B, 1071
 FISHMAN, M. 39B, 725
 FITZPATRICK, L. C. 40A, 603, 681
 FLEISSNER, G. 40A, 523
 FOLSOM, M. D. 39B, 589, 599
 FONTAINE, M. 40A, 127
 FORRESTER, L. J. 38B, 73
 FORSTER, R. P. 39B, 415, 40A, 107
 FORTE, T. 39B, 673
 FOSTER, R. F. 39A, 437
 FOTHERGILL, J. E. 40A, 445
 FOTHERGILL, L. A. 40A, 445
 FOUQUET, J. P. 40A, 305
 FOURNIER, Jr., M. J. 39B, 897
 FOURTNER, C. R. 38A, 751
 FRAIR, W. 40B, 931
 FRANCE, V. 38A, 687
 FRANCIS, N. 40B, 147
 FRANKLIN, G. I. 39B, 695
 FRAYHA, G. J. 39B, 167
 FREED, J. M. 39B, 747, 765

- FREEDLAND, R. A. 39B, 237, 833
 FREEMAN, A. R. 40A, 71
 FREEMAN, B. M. 40A, 553
 FRENCH, W. L. 38B, 627
 FRIED, M. 38B, 259, 39B, 523
 FRIEDL, F. E. 39A, 605
 FRITZ, H. 39A, 63
 FRIZ, C. T. 38A, 477
 FROM, S. HJ. 40B, 579
 FROMM, P. O. 39A, 137, 40A, 999
 FRY, F. E. J. 38A, 203
 FUJITA, T. S. 40B, 241
 FUNAKOSHI, S. 39B, 489
- GAINER, H. 38A, 407
 GALSTER, W. 40B, 601
 GAMBLE, W. 40B, 335
 GAMMACK, D. B. 40B, 295
 GAMO, M. 39B, 151
 GARRETT, M. R. 39A, 633
 GARTON, G. A. 39B, 1049
 GASS, G. H. 39A, 545, 40A, 367
 GAUGHAN, P. L. Z. 39B, 5
 GEHLBACH, F. R. 38B, 103
 GENT, M. 38A, 777
 GHIDALIA, W. 40A, 479
 GHOSE, K. C. 40B, 317
 GIEBEL, W. 38B, 197
 GIESE, A. C. 38B, 463
 GILLEN, R. G. 38B, 585
 GINGER, C. D. 39B, 247
 GIST, R. L. 40B, 575
 GLAESER, R. M. 40B, 327
 GLASS, R. L. 38B, 353
 GLEASON, F. H. 40B, 387
 GOLDBERG, D. M. 38B, 697
 GOLDMAN, S. S. 39A, 437
 GOLDSTEIN, L. 39B, 415
 GONZALEZ, C. 40B, 71, 81
 GOOD, W. 38A, 777
 GOODEN, B. A. 40A, 659
 GOODMAN, M. 39B, 455
 GOODYEAR, C. P. 40A, 771
 GOT, R. 39B, 843, 40B, 439
 GOTTLIEB, R. 40B, 1005
 GOULD, W. M. 40A, 855
 GRAHAM, JR., C. R. 38A, 489
 GRANDE, F. 39B, 69
 GRAS, J. 39A, 45
 GREEN, J. 39A, 769
 GREENWALD, O. E. 40A, 865
 GRIMWOOD, B. G. 38B, 309
 GRISWOLD, M. D. 39B, 455
 GROVE, D. J. 38A, 461
- GUDEFIN, Y. 39A, 45
 GUILER, E. R. 39B, 203, 209, 219
 GUNVILLE, R. 38A, 763
- HABIBULLA, M. 39B, 499
 HAESER, P. E. 38B, 753
 HAFKENSCHIED, J. C. M. 39B, 955
 HAINES, H. 39A, 53
 HAJJAR, J.-J. 40A, 39
 HALIKAS, G. C. 39A, 869
 HALL, F. R. 38B, 723
 HALLETT, M. 39A, 643
 HALLOWITZ, R. A. 40A, 733
 HALPERN, E. A. 39A, 125
 HAMPTON, J. R. 38A, 535, 39B, 999
 HANEDA, Y. 40A, 163
 HANLON, D. P. 39B, 383
 HANSEN, H. J. 38B, 467
 HANSEN, I. A. 39B, 1
 HANSEN, R. J. 39B, 607
 HARDUF, Z. 39B, 61
 HARE, P. E. 40B, 1037
 HARRIS, C. L. 40A, 295
 HARRIS, K. E. 40B, 567
 HARRIS, R. R. 38A, 769
 HARTENSTEIN, R. 40B, 781
 HASSINGER, J. D. 40B, 521
 HATINA, G. V. 39B, 483
 HAZELWOOD, R. L. 39B, 267, 40A, 273
 HAZLETT, B. A. 39A, 665
 HEATH, J. E. 40A, 809, 815, 881
 HEDDLE, R. W. L. 39B, 203, 209, 219
 HEDENSTAM, R. 40A, 1097
 HEISINGER, J. F. 39A, 657
 HELLER, P. 40A, 181
 HELMS, C. M. 38B, 439
 HERALD, F. 40A, 871
 HEREMANS, J. F. 39B, 119
 HERMSMEYER, K. 39A, 333
 HERNANDEZ, T. 38B, 679, 40B, 741
 HERRING, P. J. 39B, 739, 1039
 HERZBERG, G. R. 40A, 229
 HILL, L. G. 40A, 711
 HINKLE, M. 40A, 181
 HIPPE, E. 40B, 301
 HISSA, R. 38A, 743
 HNI, Y. 39B, 367
 HOCHACHKA, P. W. 39B, 925, 40B, 207
 HODGINS, H. O. 39B, 285
- HODGSON, E. 39B, 589, 599
 HOFF, K. M. 39A, 879
 HOFFERT, J. R. 39A, 137
 HOHNKE, L. A. 40B, 757
 HOLCOMBE, C. M. 38B, 459
 HOLLIER, L. 40A, 405
 HOLLINGWORTH, R. M. 38B, 723
 HOLMES, J. E. 38A, 603
 HOLMES, W. N. 40A, 203
 HOLSTEIN, B. 38A, 435
 HOLT, F. J. 40B, 283
 HOLYOAK, G. W. 39A, 413
 HOOPER, S. N. 39B, 579, 40B, 931
 HOPCRAFT, D. 38A, 525
 HORNE, F. R. 38A, 565
 HORNSTEIN, I. 40B, 571
 HORNUNG, D. E. 40B, 341
 HOTTA, T. 40A, 415
 HOUK, J. M. 39B, 873
 HOUSTON, A. H. 40A, 535
 HUDDART, H. 38A, 715
 HUDSON, J. W. 38A, 59
 HUDSON, R. A. 40B, 61
 HUGGINS, A. K. 38B, 537, 39B, 695
 HUIBREGTSE, W. H. 38A, 763
 HULTIN, T. 40B, 1011
 HUNT, S. 40B, 37, 475, 715
 HUTTO, A. 39A, 227
- IDLER, D. R. 38A, 581
 IKAN, R. 40B, 1005
 INWANG, E. E. 39B, 659
 IRREVERRE, F. 40B, 571
 ISHAAYA, I. 39B, 935
 ISSEROF, H. 39B, 1017
- JACKSON, JR., C. G. 38B, 459
 JACKSON, M. M. 38B, 459
 JACKSON, N. 39A, 177, 39B, 683
 JAFFE, J. J. 39B, 775
 JANSSENS, P. A. 38A, 163, 40B, 503
 JAYAPRAKASH, N. 40B, 147
 JENESS, R. 38B, 353
 JENSEN, J. N. 39B, 19
 JERELOVA, O. M. 40A, 281
 JOHN, T. M. 40A, 459
 JOHNSON, A. D. 39A, 599, 40A, 987
 JOHNSON, A. G. 39B, 285
 JOHNSON, C. R. 40A, 1111
 JOHNSON, H. D. 38A, 709

- JOHNSTON, D. W. 40A, 1109
 JONES, A. 39B, 383
 JONES, H. D. 39A, 289
 JOSEPH, M. M. 40A, 459
 JURD, R. D. 40B, 751
- KAHAN, L. B. 40A, 1
 KAMIYA, M. 38A, 443
 KAMPE, G. 40A, 549
 KANAZAWA, A. 38B, 597, 603
 KAPLAN, R. H. 39B, 1053
 KAREEM, H. A. 40A, 113
 KARLSSON, B. W. 38B, 299, 40B, 93
 KATZ, Y. 38A, 329, 40B, 1005
 KAWAMURA, M. 38A, 147
 KE, P. J. 39B, 579
 KEILMAN, G. R. 39B, 425
 KELLEN, J. A. 39B, 305, 311
 KEMP, P. 39B, 357
 KENNEDY, P. M. 40A, 723
 KERKUT, G. A. 38B, 529, 39B, 423, 879, 40A, 579, 40B, 223
 KERSETTER, T. H. 40A, 373
 KHOKHAR, R. 39A, 531
 KILEJIAN, A. 40B, 25
 KIMMEL, J. R. 39B, 267
 KINCAID, M. C. 39B, 383
 KIRSCHNER, L. B. 40A, 373
 KISLOV, A. N. 39A, 521
 KITCHIN, S. E. 40A, 431
 KLICKA, J. 38A, 53
 KLUGER, M. J. 40A, 809
 KNIGHT, L. A. 40B, 459
 KNOOK, D. L. 38A, 309, 387
 KOBAYASHI, M. 38A, 301
 KOBAYASHI, N. 39B, 367
 KOENIG, V. L. 40B, 959
 KOLICH, M. S. 40A, 367
 KOLL, M. 40B, 593
 KORNUYSHINA, T. V. 40B, 1057
 KRASSNER, S. M. 39B, 5
 KRASTS, I. V. 40A, 281
 KRAUL, K. 39A, 649
 KRISTHAL, O. A. 40A, 715
 KUSHINS, L. J. 39A, 421
 KUSUDA, J. 39B, 317
 KUTCHAI, H. 39A, 119, 357
- LAHOUD, H. 38B, 379, 39B, 435
 LANE, C. E. 39A, 483, 40A, 155
 LANE, L. 39B, 383
 LANGE, R. 40A, 823
 LANGER, B. W. 40B, 833
- LARDER, P. J. 39A, 125
 LAROCHELLE, L. 39B, 689
 LARSEN, B. 38A, 571, 827
 LARSSON, G. B. 40B, 93
 LAW, P. K. 40A, 265
 LAWRENCE, A. L. 38B, 463
 LAWRENCE, J. M. 38B, 463
 LAY, D. M. 40B, 521
 LAYNE, D. S. 39B, 25, 40A, 257
 LEBRETON DE VONNE, T. 40B, 439
 LEE, J. C. K. 39B, 325
 LEE, P. C. 40B, 1071
 LEGG, G. 40B, 475
 LEGLER, D. W. 38B, 523
 LEITCH, G. J. 38A, 175
 LEMAIRE, J. 40B, 923
 LENSKEY, Y. 38B, 129, 39B, 335
 LERMAN, S. 38A, 637
 LERNER, J. 40A, 229
 LEVEILLE, G. A. 40A, 557, 569
 LEVY, B. M. 39B, 963
 LEVY, P. L. 39B, 1053
 LEWIS, J. K. 39B, 343, 925
 LILJEQVIST, G. 39B, 551
 LILLO, S. 40B, 71
 LILLYWHITE, H. B. 40A, 213
 LIN, S. C. 39B, 639
 LINDSAY, O. B. 39B, 823
 LINDSAY, R. K. 39B, 683
 LINDSTEDT, K. J. 39A, 553
 LINTON, J. R. 39A, 367
 LIPPE, C. 38A, 473
 LITTLE, W. 38B, 425, 40B, 543
 LOIZZI, R. F. 39B, 227
 LONG, J. B. 40A, 385
 LONTIE, R. 40B, 19
 LOUISOT, P. 39B, 843
 LOWE, C. H. 39A, 125
 LUICK, J. R. 40A, 495, 789
 LUPO DI PRISCO, C. 40B, 53
 LUSTIG, V. 39B, 305, 311
 LUTMER, R. F. 39B, 101
 LUTZ, P. L. 40A, 453
 LYAKIS, J. J. 39B, 83
 LYNCH, III, R. V. 40A, 163
- MA, P. F. 39B, 969, 40B, 1071
 MCCANN, F. V. 40A, 353
 MCCLEAN, R. L. 39B, 1023
 MCCORMACK, J. J. 39B, 775
 MCCORMICK, D. B. 38B, 87
 MCCULLOUGH, I. I. 39A, 177
 MCDANIEL, R. G. 38B, 309
 McDONALD, H. S. 40A, 881
- MCDUGAL, W. J. 40B, 575
 MCFARLAND, L. Z. 39A, 653, 40A, 971
 MCFARLANE, W. V. 40A, 723
 MCGEACHIN, R. L. 38A, 457
 MCGINNIS, S. M. 40A, 119, 893
 MCGRATH, C. J. 39B, 607
 MACINNIS, A. J. 40B, 993
 MCKENZIE, J. A. 38B, 487
 McLAIN, L. R. 38B, 501
 McLAUGHLIN, J. 38B, 147, 165, 179
 McMANUS, W. R. 38B, 435
 McNABB, R. A. 40A, 609
 McNEILL, J. H. 39B, 689
 McNEILL, K. M. 38B, 493
 McWHINNIE, D. J. 38B, 247, 739
 MADGE, D. S. 40A, 649
 MAGURA, I. S. 40A, 715
 MAHMOUD, I. Y. 38A, 53
 MALLEAN, N. 40B, 155, 751
 MALOY, G. M. O. 38A, 525, 39A, 403
 MANGUM, C. P. 39A, 421
 MANN, R. A. 40B, 387
 MANWELL, C. 40B, 147
 MAO, S. H. 40A, 669
 MARCHALONIS, J. J. 38B, 609
 MARCHELIDON, J. 40A, 127
 MARSDEN, J. R. 40B, 871
 MARUYAMA, K. 38A, 147
 MASSARO, E. J. 38B, 327, 39B, 1023
 MASSON, P. L. 39B, 119
 MATTER, III, P. 38B, 93
 MAYERLE, J. A. 40A, 1087
 MAYNARD, D. M. 38A, 339
 MAZUMDER, N. K. 40B, 983
 MEARLE, P. M. 38B, 373
 MECHAM, J. A. 40A, 609
 MEENAKSHI, V. R. 40B, 1037
 MEGO, J. L. 40B, 263
 MEHTA, P. D. 38A, 637
 MEIER, A. H. 40A, 459
 MENDOZA, C. E. 39B, 483, 40B, 841
 MERSMANN, H. J. 39B, 873
 MEYER, D. B. 40B, 61
 MEYMARIAN, E. 39B, 775
 MICALLEF, H. 38A, 769
 MICHAEL, P. 38A, 449
 MICHELSON, E. H. 38B, 263
 MILES, H. M. 38A, 787
 MILLER, G. J. 39B, 445

- MILLER, T. 40A, 761
 MILLS, G. L. 40B, 489
 MISAKA, E. 38B, 651
 MISTRY, S. P. 38B, 285
 MITTERER, R. M. 38B, 405
 MIZELL, S. 38A, 591, 39A, 219, 227, 465, 40A, 487
 MOCZAR, E. 39B, 173
 MOCZAR, M. 39B, 173
 MONGIN, P. 40A, 1029
 MONTI DE REZE, M. 40A, 479
 MOON, T. W. 40B, 207
 MOORE, G. W. 39B, 455
 MORE, N. K. 38B, 225
 MORGAN, W. W. 38A, 591, 40A, 487
 MORRIS, D. 40A, 431
 MORRIS, J. E. 39A, 843
 MORRIS, R. J. 40B, 275
 MORRISON, P. 40B, 601
 MORTON, M. L. 39A, 75
 MOSES, A. 39B, 725
 MOSKOW, H. 39A, 219
 MOTZOK, I. 40B, 129
 MOURAY, H. 40B, 439
 MUGAAS, J. N. 40A, 935
 MUKAI, J. 39B, 317
 MULLEN, R. K. 39A, 379
 MUNDAY, K. A. 39A, 699, 40B, 531
 MUNICIO, A. M. 38B, 109
 MUNSON, J. L. 40A, 45
 MURDAUGH, JR., H. V. 39A, 807
 MUSCATINE, L. 40B, 945
 MUZII, E. O. 40B, 199
- NADLER, C. F. 40B, 521, 567
 NAIRE, V. S. K. 38B, 1
 NAKADA, H. I. 40B, 807
 NARASIMHAN, D. V. 39B, 89
 NARDI, G. 40B, 199
 NAYAR, K. K. 40B, 515
 NELSON, G. J. 40B, 423
 NEVEU, M. C. 40B, 863
 NEWELL, R. C. 38B, 635, 39A, 277, 40B, 249
 NICHOLS, A. V. 39B, 673
 NICKERSON, K. W. 39B, 855
 NIELSON, L. E. 40A, 639
 NIEMEYER, H. 40B, 71, 81
 NOLAN, R. J. 39A, 657
 NOLLY, H. 39A, 823, 833
 NORTON, D. A. 40B, 575
 NUDD, M. F. 39A, 545
- NUTE, P. E. 39B, 797
 NYMAN, O. L. 40B, 563
- O'CONNOR, J. D. 40B, 945
 O'DAY, D. H. 40B, 917
 O'DOHERTY, P. J. A. 38B, 543, 39B, 159, 163
 OELTGEN, P. R. 38B, 247, 739
 O'FARRELL, M. J. 39A, 549
 OLIVER, C. J. 40B, 19
 OLIVER, G. 39B, 423
 OLIVER, G. W. O. 38B, 529
 OLIVER, I. T. 39A, 723, 40A, 135
 OLSEN, W. A. 39B, 617
 OLSON, K. R. 40A, 999
 OMAND, E. 38A, 265
 ORITSLAND, N. 40A, 359
 ORMEROD, W. E. 40B, 481
 OSMAN, F. H. 40A, 45
 OUDEJANS, R. C. H. M. 40B, 1
 OWEN, T. G. 40B, 465
 OWENS, D. 40A, 385
- PACKER, R. K. 40A, 319
 PALAT, E. 39B, 843
 PALEUS, S. 39B, 551
 PALMER, L. S. 38B, 299
 PALOKANGAS, R. 38A, 743, 40B, 813
 PALTRIDGE, R. W. 40B, 503
 PAPPAS, P. W. 38A, 713, 40B, 433, 709, 1029
 PARR, C. W. 40B, 481
 PARSONS, R. S. 39B, 203, 209, 219
 PATON, D. M. 38A, 251, 40A, 45, 751
 PAULOV, S. 40B, 313
 PAX, R. A. 38A, 751
 PEAK, M. J. 38B, 471
 PEARCE, J. 39B, 683, 40B, 215
 PEARSON, J. D. 38A, 157
 PENGELLEY, E. T. 38A, 239, 517, 645
 PEREK, M. 38B, 411
 PERRIER, C. 39A, 45
 PERRIER, H. 39A, 45
 PETERS, J. H. 39B, 639
 PETERS, M. 39A, 165
 PETERSON, D. F. 40A, 425
 PETERSON, D. R. 39B, 227
 PETERSON, G. L. 38B, 451
 PFLEIDERER, G. 38B, 197
 PHILLIPS, W. E. J. 40B, 841
 PHILPOT, R. M. 39B, 589
- PIERCE, JR., S. K. 38A, 619, 39A, 103
 PITMAN, R. M. 40A, 579
 POAT, P. C. 39A, 683, 40B, 531
 POCKOCK, D. M.-E. 39A, 683
 POLLOCK, H. G. 39B, 267
 POLZONETTI, MAGNI A. 40B, 53
 PORTER, C. A. 40B, 335
 PORTER WELBOURNE, W. 38A, 457
 PRABHU, V. K. K. 38B, 1, 40B, 515
 PRASAD, C. 38B, 627
 PRENSKY, A. L. 39B, 725
 PRICE, J. S. 40B, 387
 PRICHARD, R. K. 38B, 379, 39B, 435
 PRIGGE, W. F. 39B, 69
 PRUSCH, R. D. 39A, 761
 PUCA, M. 40B, 199
 PULLIN, R. S. V. 40A, 617
 PUPPIONE, D. L. 39B, 673
 PUROHIT, K. G. 39A, 473
 PUSHPENDRAN, C. K. 40B, 651
 PYE, V. L. 38B, 635, 40B, 249
- QUAMME, G. A. 39B, 25, 40A, 257
 QUARMBY, R. 40B, 295
 QUILLIAM, T. A. 40A, 89
- RADCLIFFE, M. A. 39A, 583
 RAHEJA, K. L. 39B, 237, 833
 RANDALL, D. J. 39A, 391, 505
 RANGA RAO, K. 38A, 17, 39B, 291
 RAO, K. D. P. 39B, 183
 RAPER, J. H. 40B, 295
 RASMUSSEN, D. I. 39B, 19
 RASMUSSEN, L. E. 40A, 145
 RASSKAZOW, V. A. 40B, 1057
 READ, L. J. 39A, 185, 39B, 409
 REID, I. A. 40A, 249
 REID, R. M. 38B, 235
 REIMER, A. A. 39A, 743, 40A, 19
 RENFRO, J. L. 40A, 711
 RICHARD, A. 40B, 923
 RICHMOND, J. E. 39A, 649, 40B, 327
 RICK, J. T. 38B, 529, 40B, 321
 RIEDESEL, M. L. 38A, 121
 RIGGS, A. 38B, 585
 RITCHER, G. W. 39B, 325
 ROBB, F. T. 38B, 471
 ROBERGE, A. 38B, 295
 ROBERTS, L. S. 40A, 777, 40B, 885

- ROBIN, E. D. 39A, 807
 ROCK, R. C. 38B, 425, 39B, 897, 40B, 543, 657, 893
 RODRICK, G. E. 40B, 433, 709, 1029
 ROFFE, L. M. 39B, 377
 ROGERS, L. 39B, 627
 ROMSOS, D. R. 40A, 557, 569
 RONALD, A. P. 39B, 195, 503
 ROSE, F. L. 39A, 447
 ROTH, E. S. 40B, 241
 ROVETTO, M. J. 39A, 39
 ROY, A. D. 38B, 697
 RUBINSTEIN, N. A. 39B, 709
 RULON, R. 39A, 333
 RUSSELL, T. R. 38B, 523
 RYAN, K. 40A, 979

 SACHATELLO, C. R. 39B, 715
 SADANAND, A. V. 40B, 797
 SADDLER, J. B. 38A, 497, 39A, 709
 SAGE, M. 40A, 851
 SAITO, K. 39B, 151
 SALSBUURY, A. J. 40A, 89
 SALTHER, S. N. 39B, 343
 SAND, O. 40A, 1043
 SANDERS, B. G. 39B, 299
 SAPSFORD, C. W. 38B, 471
 SATO, M. 39B, 367
 SAUNDERS, L. H. 38B, 487
 SAWANT, V. A. 38B, 211
 SAZ, A. J. 39B, 627
 SAZ, H. J. 40B, 121
 SCHAPER, J. 38B, 43
 SCHLAMOWITZ, M. 38B, 513
 SCHMIDT-NIELSEN, K. 40A, 547
 SCHOFIELD, P. J. 38B, 379, 39B, 435
 SCHOLZ, R. W. 40A, 1029
 SCHRAM, A. C. 39B, 789
 SCHWABE, C. W. 40B, 25
 SEAMAN, G. R. 40B, 593
 SEGURA, E. T. 38A, 655
 SENFF, R. E. 40A, 1009
 SENFT, A. W. 38B, 663
 SETCHELL, B. P. 38A, 705
 SEYMOUR, M. K. 40A, 859
 SHARMA, M. L. 40B, 863
 SHAW, A. R. E. 40B, 155
 SHAW, D. H. 40B, 563
 SHEERIN, H. 40A, 229
 SHEILDS, J. B. 40B, 841
 SHERMAN, I. W. 40A, 543

 SHERRATT, H. S. A. 38B, 5
 SHIELD, III, C. F. 39A, 53
 SHIRAI, N. 38A, 443
 SIDDIQI, A. E. 40A, 453
 SIMON, R. G. 40B, 601
 SIMPSON, J. W. 39B, 963, 40B, 633
 SINGER, J. W. 40A, 635
 SIU, P. M. L. 38B, 73
 SJOQVIST, A. 40B, 1011
 SMIT, H. 39A, 1
 SMITH, A. C. 39B, 719
 SMITH, D. S. 39A, 367
 SMITH, E. C. 40B, 433
 SMITH, J. 39A, 807
 SMITH, L. S. 38A, 497
 SMITH, M. J. 40B, 615
 SMITH, M. W. 39A, 209, 39B, 357
 SMITH, JR., T. 40A, 295
 SMITH, T. M. 40B, 459
 SMITH, W. J. 40B, 833
 SNART, R. S. 38B, 269, 39A, 203
 SNEDECOR, J. G. 39B, 833
 SOUTHWICK, E. E. 40A, 935
 SOUTHWORTH, T. P. 40A, 893
 SPAFFORD, D. C. 38A, 239
 SPEHAR, A. M. 40A, 945
 SPERELAKIS, N. 39A, 333
 SPIEGEL, E. S. 39B, 709
 SPIEGEL, M. 39B, 709
 SPIEGEL, P. K. 40A, 107
 SPOONER, R. L. 40B, 983
 SPRINZ, H. 38B, 425
 SPRONK, N. 38A, 309, 387
 SRIVASTAVA, H. K. 40B, 973
 STAALAND, H. 40A, 823
 STALLING, D. L. 38B, 373
 STANDEFER, J. C. 38B, 425, 40B, 543
 STANLEY, D. W. 38A, 733, 40B, 623
 STEEN, J. B. 39A, 119
 STEIN, T. A. 39B, 541
 STEPHEN, W. P. 38A, 213
 STEVENS, E. D. 38A, 203
 STEVENS, J. J. 38A, 655
 STEVENSON, J. R. 39B, 559, 40B, 341
 STICKLE, W. B. 40A, 627
 STILES, D. 38B, 247
 STOKES, R. M. 40A, 681
 STONEHOUSE, B. 40A, 689
 STONES, R. C. 39A, 413
 STROHBEHN, R. 38A, 183

 STUART, T. D. 40B, 387
 STUCKEY, S. R. 40B, 61
 STUDIER, E. H. 38A, 129, 39A, 549
 SUAREZ, A. 38B, 109
 SUGIYAMA, N. 40A, 163
 SULLIVAN, B. 39B, 797, 40B, 359
 SUNDARARAK, B. I. 39B, 89
 SURYANARAYANAN, H. 40A, 55
 SUZUKI, N. 40A, 399
 SUZUKI, S. 38A, 147
 SWAPIR, N. 38B, 411

 TABERNER, P. V. 38B, 529
 TANIGOSHI, L. 40A, 543
 TAPPEL, A. L. 38B, 651
 TAYLAUR, C. E. 40B, 489
 TAYLOR, A. C. 39B, 963
 TAYLOR, D. L. 38A, 233
 TAYLOR, E. W. 39A, 297, 307
 TAYLOR, G. S. 38A, 251
 TENTORI, E. 38B, 119
 TESHIMA, S. I. 38B, 597, 603, 39B, 815
 THABREW, M. I. 39A, 699, 40B, 531
 THANASSI, N. 40B, 807
 THEODORE, J. 39A, 807
 THOMPSON, S. N. 38B, 333
 THORBURN, G. D. 38A, 705
 TKACHUCK, R. D. 40B, 993
 TODD, E. S. 39A, 147
 TRAMELL, P. R. 40B, 395
 TRAVIS, J. 38B, 103, 39B, 299
 TRITSCH, G. L. 39B, 715
 TRUEMAN, E. R. 38A, 555
 TSUJI, F. I. 40A, 163
 TSUYUKI, H. 39B, 195, 503
 TUCKER, D. 40A, 399
 TULLIS, R. E. 40B, 109
 TUMBLESAN, M. E. 39B, 725
 TUNG, D. A. 39B, 559
 TUNINCLIFF, G. 40B, 321
 TURNER, P. C. 39A, 599
 TWEEDY, D. G. 38A, 213

 UHLER, L. D. 38B, 87
 UHLMAN, C. 38A, 645
 UMEMORI-AIKAWA, Y. 40B, 347
 UMMINGER, B. L. 38A, 141, 39A, 625
 UNGAR, F. 38A, 763
 URETA, T. 40B, 71, 81

- UTIDA, S. 38A, 443
UTTER, F. M. 39B, 285, 891
- VACIKOVA, A. 40A, 975
VALEYEV, A. G. 40A, 715
VAN BRUGGEN, E. F. J. 40B, 1045
VAN DEN BOSSCHE, H. 38B, 43
VAN DER HORST, D. J. 40B, 1
VAN DER KLOOT, 40A, 181
VANDRELY, R. 40A, 479
VAN HANDEL, E. 38B, 141
VAN HOEK, R. J. 38A, 309, 387
VAN HOLDE, K. E. 39B, 855
VANNI, P. 39B, 1045
VARUTE, A. T. 38B, 211, 225
VASKOVSKY, V. E. 38B, 689
VENKATESAN, S. 40B, 481
VEPRINTSEV, B. N. 39A, 521, 40A, 281
VIHKO, V. 40B, 813
VIJVERBERG, J. 39A, 1
VINCE, M. A. 39A, 769
VOGEL, M. D. 40B, 575
VOIGT, W. G. 40A, 119
VON VAUPEL-KLEIN, J. C. 39A, 1
VOOGT, P. A. 39B, 139
VWALDI, G. 38B, 119
- WADE, P. T. 39B, 659
WAHLE, K. W. J. 38B, 5
WALCZAK, I. M. 39B, 1017
WALKER, R. J. 39B, 423, 40A, 579, 40B, 223
WARBURG, M. R. 40A, 911, 1055
- WARD, C. W. 38B, 279
WARREN, S. 39A, 219
WATKINS, II, J. F. 38B, 103
WATSON, N. J. 38A, 675
WATTS, D. C. 39B, 979
WATTS, R. L. 39B, 979
WAWERNA, J. C. 39A, 361
WEATHERS, W. W. 40A, 503
WEBER, R. E. 38A, 465
WEBSTER, L. A. 39A, 785
WEDEMEYER, G. A. 40B, 823
WEINHEIMER, P. F. 38A, 483, 38B, 523
WEINSTEIN, P. P. 40B, 121
WEINTAUB, M. S. 38B, 513
WEISER, W. 39A, 63
WEISS, H. S. 38A, 675
WELCH, S. G. 40B, 481
WELLS, J. W. 40A, 61, 40B, 723
WELSCH, F. 38B, 393
WELTMAN, J. K. 38B, 609
WEXLER, B. C. 39B, 101
WHITEGIVER, E. R. 40B, 637
WHITFORD, W. G. 40A, 797
WHITTEN, B. K. 38A, 469
WIGGS, A. J. 40B, 465
WILBUR, K. M. 40B, 1037
WILLIAMS, B. A. 40A, 815
WILLIAMSON, D. G. 39B, 25, 40A, 257
WILLIAMSON, J. 39B, 247
WILLINGHAM, III, T. A. 39A, 219
WILLIS, J. S. 39A, 437
- WILLOUGHBY, E. J. 38A, 541
WINTER, C. 40A, 523
WISEMAN, P. 38A, 581
WITTERS, R. 40B, 19
WOOD, C. M. 39A, 391
WOOD, E. J. 40B, 7, 19
WOODS, E. F. 39A, 325
WOOLF, A. 40B, 567
WREDMAN, A. 38A, 157
WRIGHT, D. W. 38B, 269, 39A, 203
WYCKOFF, R. W. G. 38B, 93
- YARBROUGH, C. G. 39A, 235
YAU, W. M. W. 39A, 545
YEOH, G. 39A, 723
YEUNG, D. 40A, 135
YINON, U. 39A, 457
YOUNG, S. D. 40B, 113, 945
YOUSEF, M. K. 38A, 709, 39A, 361, 671, 40A, 495, 789, 39B, 279
YUNIS, A. A. 39B, 395
- ZAGALSKY, P. F. 40B, 295
ZANDEE, D. I. 40B, 1
ZAUGG, W. S. 38B, 501
ZHIVKOV, V. 39B, 701
ZIMMERMAN, D. H. 38B, 239
ZIMMEY, M. L. 40A, 405
ZOLLMAN, J. R. 38A, 407
Zs-NAGY, I. 40A, 595
ZWILLING, R. 38B, 197